

UA elections see low voter turnout

Joke & write-in candidates among elected; run-offs planned

By Janelle Mansfield

The biannual whirlwind of Undergraduate Association elections has passed, leaving a Senate-elect consisting of dedicated students, a Pokémon, a risqué historical figure, a feline,

and several seats still to be determined by run-off elections.

Eighteen percent of MIT students voted this fall, slightly lower than the average, which UA Elections Commissioner Daniel D. Hawkins '12 estimated is in the low 20s. There were also

fewer official candidates this year, which caused an increase in write-ins. Hawkins said the decline in official candidates could be due to a lack of publicity or scheduling conflicts. "We had to schedule the candidates' meeting during the freshman

trip to the aquarium," he noted.

Why did only 816 of 4452 undergraduates vote? "It might indicate that students don't have much faith in the [UA]. They don't associate a lot of value with

Elections, Page 13

FredFest IV showcases local bands

Organizers and attendees deem concert a success

By Adisa Kruayatidee

Last Friday marked the fourth anniversary of FredFest — MIT's largest outdoor concert — held in East Campus courtyard.

Joseph F. Graham Jr., East Campus house manager and primary FredFest manager, estimated about 200–300 people present at any given time, and up to 500 people to have passed through during the course of the evening. Two students who attended the concert said at least 50 students were present during the time they were there.

"The freshmen this year were especially energized," noted Thomas J. Delaney, East Campus housemaster.

Featured bands on Friday included Adam Ezra Group, Mission Hill, and Air Traffic Controller. This year's line-up sported credits such as a nomination for MTV's Best Breakout Artist and opening acts for Ke\$ha and Usher.

Delaney attributed part of FredFest's appeal to its well-planned timing. Early in fall semester the weather is relatively cooperative, Rush has ended and students are not yet bogged down with schoolwork.

Fred Fest, Page 14



CHRISTOPHER A. MAYNOR

David A. Alfonso '13 and Iris Xu '14 sail upwind during the Hatch Brown Trophy regatta this Saturday. The regatta attracted teams from as close as Harvard to as far as the University of Minnesota.

Catching the Cambridge winds

OBITUARY

Nicolás E. Del Castillo '14

Remembered as a friend with passion for learning



SOURCE: FACEBOOK

By Jingyun Fan

NEWS EDITOR

Nicolás E. Del Castillo '14 was found dead in his East Campus dorm room on Sept. 4. He was 18. His death was the result of an apparent suicide by asphyxiation. A memorial mass was held for him at the MIT Chapel the following Sunday.

"Nicolás, like many undergraduates, brought MIT many gifts of intellect, of creativity, of leadership, of community spirit. In his brief stay with us, [Nicolás] convinced me that his contributions, although short in time, are lasting. We will miss him as we have already. We extend our condolences to his family, to his friends," said Wesley L. Harris, the housemaster of New House, where Del Castillo spent some of his free time. "Nicolás remains a part of us."

Del Castillo was born in Bogotá, Colombia, on Aug. 13, 1993 to Henry Del Castillo and Sandra Muñoz. Before arriving at MIT in 2010, he attended the Colegio Calasanz de Bogotá.

A brave scholar

In his freshman year at MIT, Del Castillo excelled academically and planned to major in math.

In an obituary published by the MIT News Office, Henry Del Castillo recalls one of Nicolás' early interests in math at eight years of age: "He asked me, 'Papi, is there a mathematical way to determine all the prime numbers?' I told him that's a problem that mathematicians have been working on for years and years. And he said, 'I'm going to solve it.'"

"He was always a scientist," Muñoz told the

Castillo, Page 17

IN SHORT

The last day to drop your meal plan or switch to a less expensive one is this Saturday, Sept. 24. You can do so at <http://dining.mit.edu/meal-plans/changeform/>.

Career Fair is tomorrow from 11 a.m.–5 p.m. in Johnson. Visit <http://career-fair.mit.edu/> for more information and a schedule of Career Week events (or check pg. 12). So that you can more fully take advantage of the career fair, tomorrow is an student holiday — no classes!

Technique's A Day In The Life of MIT project is this Thursday, Sept. 22. Grab a camera, carry it around with you, and take a day's worth of photos! Visit <http://aditl.mit.edu/> for more information.

Donate blood this week today from 8 a.m.–2 p.m. or Wednesday through Friday from noon to 6 p.m. in La Sala de Puerto Rico, second floor of the Student Center.

Check out the Tech cartoon exhibit this Friday in 10-105 (Bush Room)!

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

Hungry on the weekend? Clover will soon be open!

The delicious smell of chickpea fritters wafted over the west side of campus this past weekend. Saturday and Sunday, the Clover food truck that is normally parked on Carlton Street behind the MIT Medical building was docked in front of the Z-Center for the t=0 entrepreneurship conference (only for the weekend, sorry!).

But there is good news. Clover general manager Vincenzo Pileggi said the truck will be starting 10 a.m.–4 p.m. Saturday

and Sunday hours at their regular Carlton location, beginning on the 24th. Those come in addition to their current Monday through Friday, 8 a.m.–5 p.m. schedule.

Asked about the possibility of a future Clover food truck location on west campus, Clover CEO Ayr Muir '00 said, "We would love to consider an additional location on west campus but would need the support of MIT for that. In particular, it could be great at late hours when campus dining

options are minimal."

As a fledgling business, the Clover food truck served breakfast and lunch Mondays through Fridays and served brunch on Sundays. However, due to lack of resources at the time, Clover management decided that it was necessary to cut out the Sunday hours. Today, Clover has expanded to five food truck locations in the Cambridge-Boston area, as well as a restaurant in Harvard Square.

—Judy Hsiang

WE DON'T NEED ANOTHER BANK

National infrastructure bank just puts states' responsibilities in federal hands. **OPN, p. 4**



3, 2, 1, T = 0

Entrepreneurs, engineers, scientists and inventors flocked to Johnson to network and talk business solutions.

PHOTO, p. 10

ENGINEERS KICK INTO HIGH GEAR

Catch up with volleyball, soccer, and cross-country athletes. **SPORTS, p. 18–19**

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ON WORLD

Obama: \$320 billion cuts in Medicare, Medicaid

By Robert Pear
THE NEW YORK TIMES

WASHINGTON — President Barack Obama’s budget director said Monday that the president’s new deficit reduction plan would impose “a lot of pain,” and that is

clearly true of White House proposals to cut \$320 billion from projected spending on Medicare and Medicaid in the coming decade. Obama proposed higher premiums and deductibles for many Medicare beneficiaries and lower Medicare payments to teaching

hospitals and rural hospitals. He would start charging co-payments to frail homebound older people who receive home health services, and he would reduce the growth of federal payments to states for treating low-income people under Medicaid.

The White House said Obama’s proposals would cut \$248 billion from the projected growth of Medicare in the next 10 years, while shaving \$72 billion from Medicaid and other health programs. A large share of the Medicare savings would, in effect, be used to pay

doctors, who would otherwise face deep cuts in the fees they receive for treating Medicare patients.

The proposals are part of a package to reduce deficits by more than \$3 trillion over 10 years, beyond the \$1 trillion in savings already assumed under the debt limit law that Obama signed in early August. The package includes tax changes intended to raise \$1.5 trillion in revenue over 10 years.

Obama would also allow the United States Postal Service to cut its losses by ending Saturday mail delivery. He would reduce farm subsidies by \$31 billion over 10 years, require federal employees to contribute more to their pension plans, force military retirees to pay more for prescription drugs and charge higher fees to air travelers for “aviation security.”

Jacob J. Lew, director of the Office of Management and Budget, rejected suggestions that the White House was going after rich people.

“If you look at the details of what’s in the plan that the president is sending to the Congress,” Lew said, “there is a lot of pain, and it’s spread — it’s spread broadly and we think fairly.”

Medicare and Medicaid insure more than 100 million people and account for nearly one-fourth of all federal spending. The proposed savings, which provoked predictable protests from health care providers, represent less than 3 percent of what the government expects to spend on the programs in the next 10 years.

Speaking in the Rose Garden on Monday, Obama said his plan — in the form of recommendations to a bipartisan congressional committee on deficit reduction — “includes structural reforms to reduce the cost of health care in programs like Medicare and Medicaid.”

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Coffee Chats

TODAY

Toscanini's 899 Main Street
10:00 a.m. - 2:00 p.m.

Career Fair

Wednesday, September 21
Johnson Athletics Center - 2nd floor
11:00 a.m. - 5:00 p.m.

Application Deadline

Wednesday, September 21
www.mckinsey.com/usschools at
11:59 p.m.

www.mckinsey.com/careers

WEATHER

Final days of summer bring warm-up

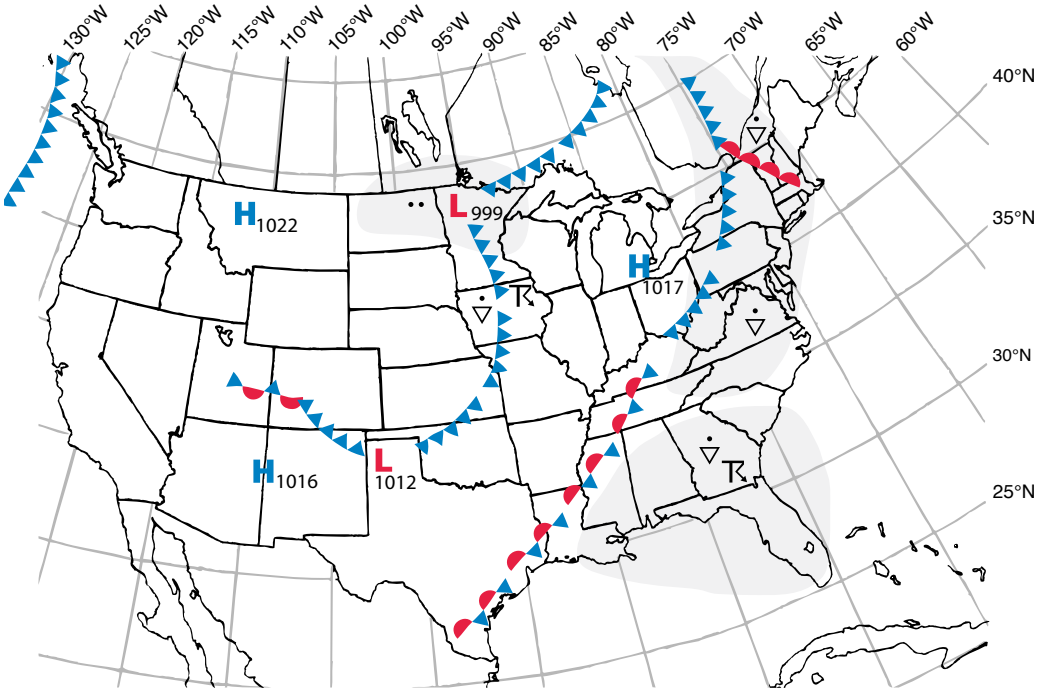
By Vince Agard
STAFF METEOROLOGIST

Although we have been experiencing weather more evocative of autumn than summer for the past few days, the summer season has yet to officially run out, as this Friday will be the first day of fall. Fittingly, we will get a break from the recent fall-like weather for some slightly warmer temperatures this week before the autumnal




















equinox. A warm front will enter our area this afternoon, bringing with it some showers and breezy winds as it moves through. However, the rain will let up overnight, making way for more pleasant weather tomorrow, as southerly advection will raise temperatures to around 77 °F. Be sure to enjoy it while it lasts, as the threat of showers will return on Thursday and hang around for the rest of the week.

Extended Forecast

Today: Cloudy with afternoon showers. High 68°F (20°C). Winds SW at 10-15 mph, possibly gusting upwards of 20 mph at times.
Tonight: Overcast with a chance of fog. Low 61°F (16°C). Winds W at 10-15 mph becoming calmer.
Tomorrow: Partly sunny and warmer. High 77°F (25°C). Winds becoming S at 8-12 mph.
Thursday: Partly cloudy with a chance of showers. Highs in the upper 70s °F (25°C).
Friday: Partly cloudy with a chance of showers. Highs in the mid 70s °F (23°C).



Situation for Noon Eastern Time, Tuesday, September 20, 2011

Weather Systems		Weather Fronts		Precipitation Symbols		Other Symbols	
	High Pressure		Trough				Fog
	Low Pressure		Warm Front				Thunderstorm
	Hurricane		Cold Front				Haze
			Stationary Front			Compiled by MIT Meteorology Staff and <i>The Tech</i>	
							

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John Chisholm '75 | MIT CDC

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Saad Zaheer '09 | Course 8

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↑ UPOP Info Session sign-ups! ↑

UPOP is the foundational year for the Gordon Engineering Leadership Program (GEL) for juniors & seniors

Info Sessions
(Free pizza!)

Tuesday	Sept 27	5:30 PM	4-270
Tuesday	Sept 27	7:00 PM	4-270
Wednesday	Sept 28	5:30 PM	4-370

617.253.0077 | 12-193 | upop@mit.edu | sign up: upop.mit.edu/events

File Edit Options Buffers Tools Im-Python Python Help

```
import new_skills

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

if you.interest == True:
    print "E-mail join@tech.mit.edu"
```



Joseph Maurer '12

Ethan A. Solomon '12

Greg Steinbrecher '12

Connor Kirschbaum '13

Aislyn Schalck '13

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With Obamacare, no need for subsidy of employer-based insurance

By Keith Yost

STAFF COLUMNIST

OPINION POLICY

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or

One of the greatest features of Obamacare is that with an individual mandate,

The citizens of, say, Ohio are and will always be in a better position to decide whether it is worth the money to repair a bridge or school in their state. Offering to let them pay for their projects with someone else's money is not going to lead to better decision-making— instead, it will lead states to cut their own infrastructure spending and turn their beggars cup to the federal government. It will incentivize states to represent their infrastructure as worse than it actually is, and pretend

—Keith Yost

No national infrastructure investment bank

Democratic activists are thrilled with Obama's supposedly new "toughness." But getting tough is only a good strategy if you've got an idea that's actually worth fighting for. Two weeks from now, every leading Republican is going to have worked out the obvious counter-argument to a national infrastructure bank, and two weeks after that they're going to have integrated the bank into their stump speeches as yet another example of intellectually bankrupt federal overreach.

EVENTS SEPT. 20 – SEPT. 26

TUESDAY

(4:00 p.m. – 6:30 p.m.) EECS Industrial Connection Program (ICP) Career Fair — 34-401

(6:00 p.m. – 7:15 p.m.) There is Nothing so Practical as a Good Theory: The Economics Behind Honest Tea — NW86 (Sidney-Pacific Graduate Residence)

WEDNESDAY

(11:00 a.m. – 5:00 p.m.) Career Fair — Johnson Athletic Center

THURSDAY

(5:00 p.m. – 7:00 p.m.) MIT Communications Forum: Local News in the Digital Age — E15-070 (Bartos Theater)

(5:30 p.m. – 6:30 p.m.) MIT Outdoor Zumba Class — Kresge Oval

(5:30 p.m. – 6:30 p.m.) Tech Talk with Brad Neuberg (Inkling), Dharmesh (Hubspot), and Paul English (Kayak)

(6:30 p.m. – 7:30 p.m.) Externship Information Session — 32-141

FRIDAY

(9:00 a.m. – 4:00 p.m.) Comic Book Fair “Release Your Inner SuperHero” — 10-105

(4:00 p.m. – 5:30 p.m.) *Persepolis*, free admission, shown by the LSC and MIT Community Giving — 26-100

SATURDAY

(12:00 p.m. – 5:00 p.m.) Pi Beta Phi’s Arrowspike — Kresge Lawn and BBQ

(6:30 p.m. – 10:00 p.m.) LSC shows *Transformers: Dark of the Moon* — 26-100

SUNDAY

(8:30 p.m.) MIT Ballroom Dance Team Dance Concert — Kresge Auditorium

MONDAY

(4:00 p.m. – 5:00 p.m.) 2011 Scolnick Prize Lecture — 46-3002

(6:30 p.m. – 9:00 p.m.) Digital Media SIG Event: Will the Cloud Change Everything? — E51-149

Send your campus events to events@tech.mit.edu.

Institute Double Take



By Samira Daswani
STAFF PHOTOGRAPHER

Hello, Beavers. Look at the picture — now back at the board — now back at the picture — now back at the board. Sadly, the board isn’t the picture, but if it was it would get stolen. Look down — back up — where are you? You’re in class with the professor who just gave you a glare because you’re looking at this picture instead of him. What’s in your hand — back at me. I have it: it’s a bike with two wheels to take you to that thing you love. Look again, the bike is now useless because it’s snowing. Anything is possible when your bike is not in your bike rack. But I’m on a horse!

Aperture:
f/13

Exposure Time:
1/400 sec.

Sensitivity:
ISO 2500

Effective Focal Length:
70 mm

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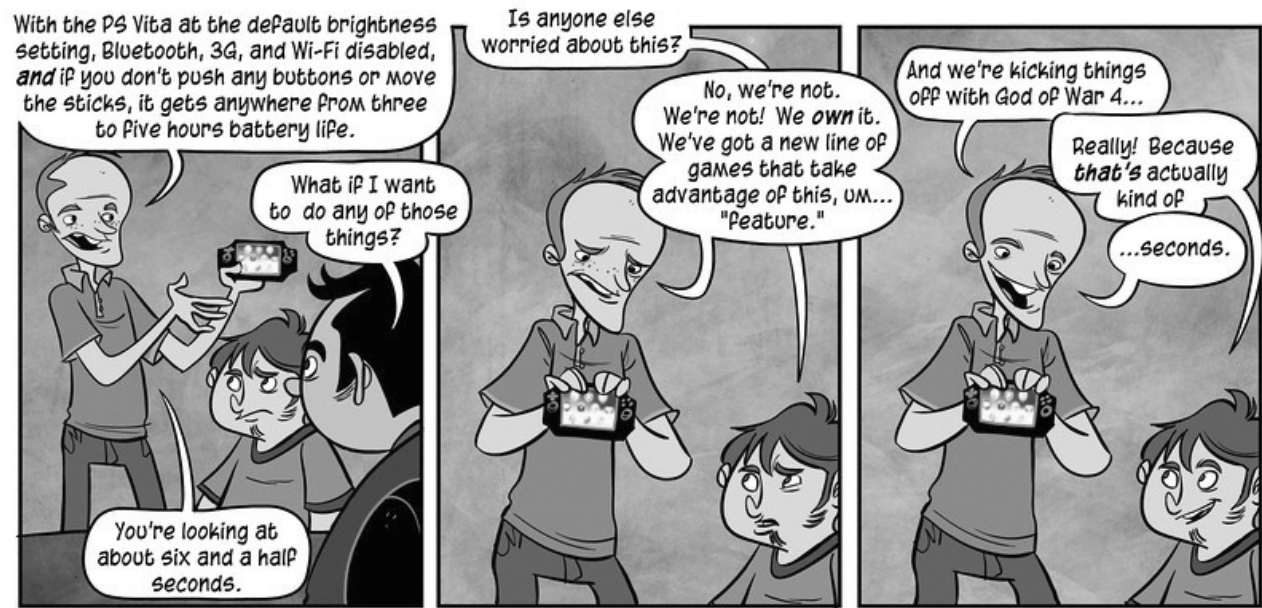
Startup Bootcamp

a free event at MIT this Saturday featuring talks by the founders of Dropbox, Kayak, Airbnb, Foursquare, Quora, and more...

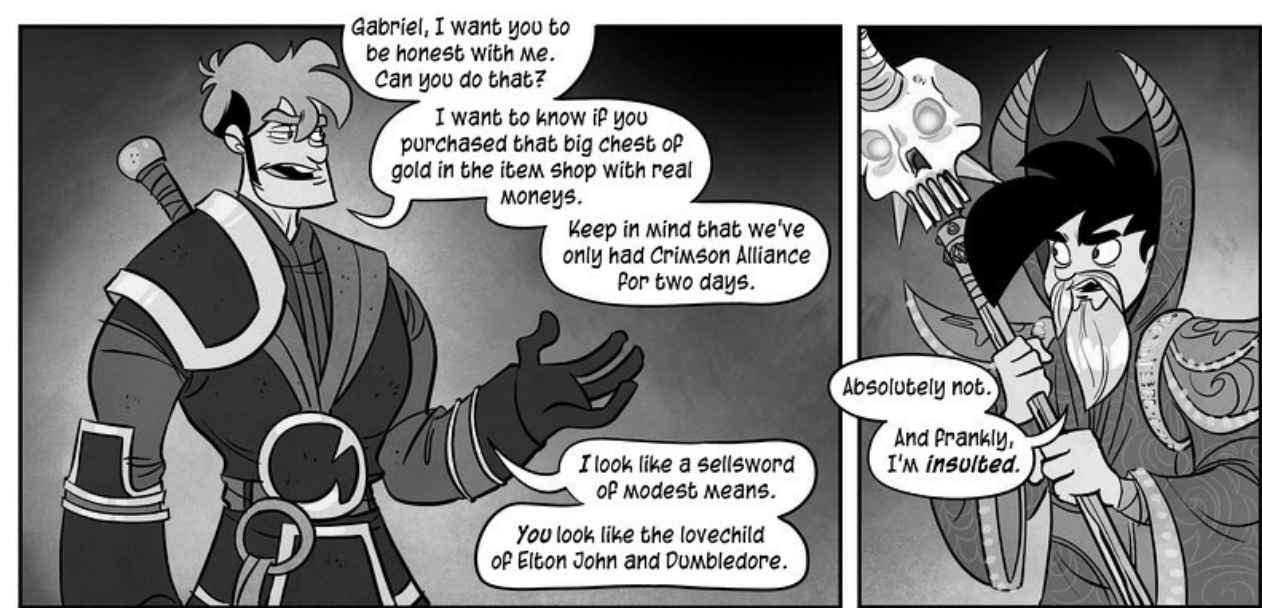
More details & RSVP at <http://startupbootcamp.mit.edu>



La Vida Vita



Work Ethics



by Jerry Holkins and Mike Krahulik

Crossword Puzzle

Solution, page 14

- ACROSS**

1 Sphere of power

4 Shillong's state

9 Adagio, allegro, etc.

14 Part of mph

15 Florida city

16 King's territory

17 Bar

20 Audiophile's setup

21 Street-fighter's blade

22 Gender

23 Basics

25 Go lickety-split

27 Bar

34 Chum

35 Tint

36 Closet type

37 Longfellow's bell town

39 Go-ahead

41 Tater

42 Tack room gear

44 ___ Loa volcano

46 Switchback curve

47 Bar

50 Uh-huh
- 51 Advocate

52 "Dune" composer Brian

55 High shots

58 Code for one-on-one combat

62 Bar

65 Lennon's "Instant ___"

66 On guard

67 Fr. woman's title

68 Simple weapon

69 The March King

70 Stand in the way
- DOWN**

1 Untitled work

2 Monthly payment

3 Semisoft cheese

4 Of a single-celled organism

5 Hot Sahara winds

6 "Casablanca" pianist

7 Writer Kingsley

8 Ho Chi ___ City

9 Insignificant

10 Med. printout
- 11 Provides with a crew

12 Knee-bending movement

13 Big name in big pictures

18 Monks' titles

19 Magnitude

24 Genoese specialty

26 Greek letters

27 San __, CA

28 First Pope-canonized saint

29 True blue

30 Crewman under Capt. Kirk

31 Dismantle mortise joints

32 Try it again

33 Extremes

34 Paris greenery

38 Black as night

40 As commanded

43 Of constellations

45 Maine's capital

48 Each

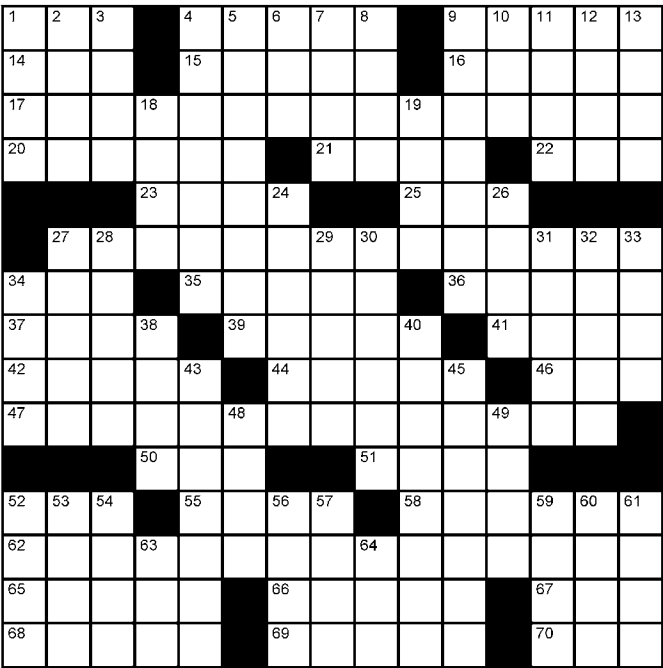
49 Maiden name indicators

52 Moose cousins

53 Tidal situation

54 Made-up monster

56 Bikini parts



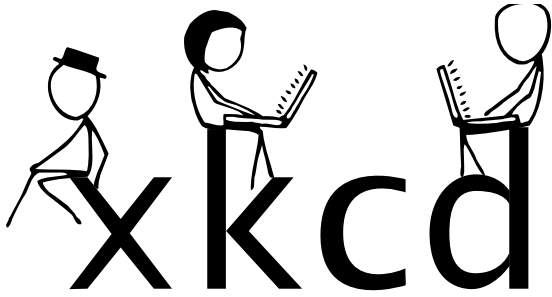
- 57 Go it alone

59 An arm or a leg

60 ___ Linda, CA
- 61 Unique person

63 Doctors' org.

64 Pot-au-__



A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE
by Randall Munroe

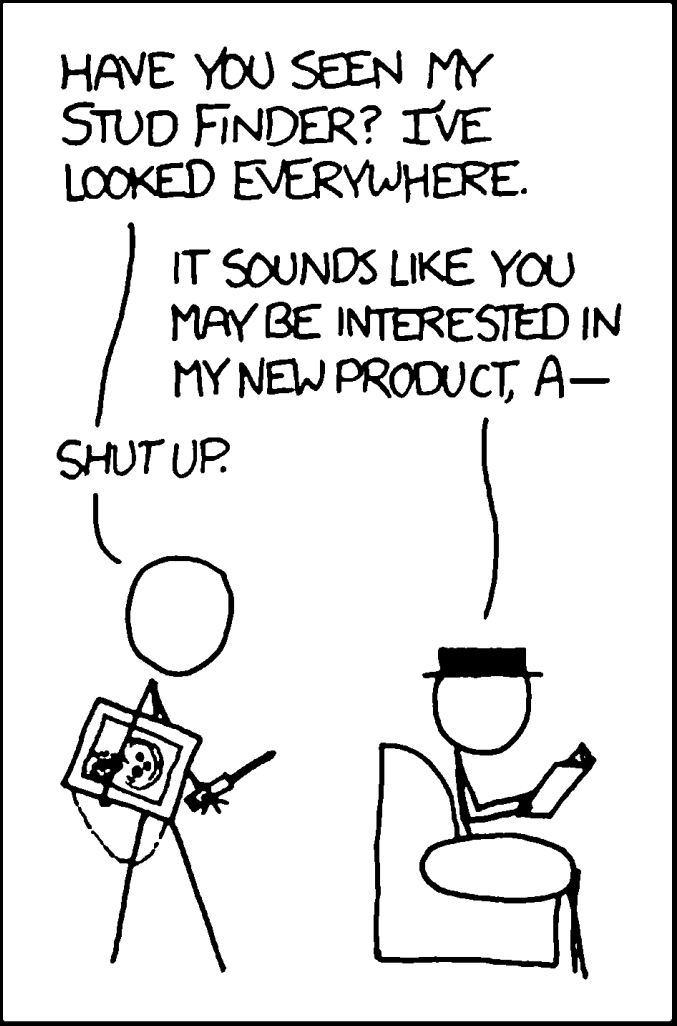


S M B C
SATURDAY MORNING BREAKFAST CEREAL
BY ZACH WEINER
[2042]



HOW TO COMMUNICATE WITH WRITERS

[952] Stud Finder



According to every stud finder I've tried to use, my walls contain a rapidly shifting network of hundreds and hundreds of studs.

Can you beat this drawing?
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	NOVELIST	POET	SCREEN- WRITER
HOW TO ANGER	"GEE! YOU SURE KNOW A LOT OF ADVERBS!"	"I DIDN'T LIKE IT. I MEAN, MOST OF IT DIDN'T EVEN RHYME"	"WHAT A GUTWRENCHING AUTOBIOGRAPHY. ADD A SEXY VAMPIRE, AND WE'LL OPTION IT!"
HOW TO DELIGHT	"EVERYTHING IN CREATION HAS BEEN LEADING UP TO WHATEVER YOU DID MOST RECENTLY." *	"YOU ARE THIS GENERATION'S LAST GENERATION'S T.S. ELIOT."	"THE PRODUCERS WANT SOME ADJUSTMENTS TO YOUR MAGNUM OPUS. SO, YOU GET AN EXTRA FIVE PERCENT!"
HOW TO RUIN FOREVER	"OH... YOUR NEW BOOK IS MADE OF SENTENCES? I GUESS THAT'S OKAY. I MEAN, IT WAS GOOD ENOUGH FOR EVERYONE ELSE."	"THE IMPORTANT THING IS THAT IT MAKES SENSE TO YOU."	TURNING 30-YEAR-OLD TV SHOWS INTO MOVIES IS ANTI-ANTI-ESTABLISHMENT. SO, IT'S <i>DOUBLE</i> SUBVERSIVE."

* ANYTHING SHORT OF THIS IS AN INSULT.

Sudoku

Solution, page 14

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

Solution, page 14

18x	18+		24x		4
	1-		20x		1-
				2-	
24x		6x			5
20x			5+		3-
8x			30x		

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.

Perry and Obama diverge on border

GOP frontrunner and Obama spar on safety of Mexico border

By Jason Buch
and Lynn Brezosky
SAN ANTONIO EXPRESS-NEWS

To the president of the United States, the 1,200 border miles that stretch from Brownsville to El Paso are either “among the safest in the nation.” But to the governor of Texas, the border is “not safe.”

In a speech this past spring to pitch comprehensive immigration reform, President Barack Obama declared southwest border cities relatively peaceful and peril-free.

Texas Gov. Rick Perry, meanwhile, in both his capacity as his state’s tough-talking chief executive and now frontrunner among the GOP’s 2012 presidential nominees, ridiculed the assertion, calling Obama in a nationally televised debate this month an “abject liar.”

And while Obama touts the doubling of Border Patrol agents to more than 20,000, as well as a drop-off in immigration detentions and low crime rates along the border, as evidence that the area is secure, Perry disagrees, claiming that he has been forced to spend state money to secure a violence-ridden region.

Fact is, more resources are indeed being devoted to the Southwest border, and last year, you were more likely to be slain in Austin, Texas, considered among the safest large cities in the country, than in El Paso, Texas, across the river from one of the most dangerous cities in the hemisphere.

“Brownsville all the way to El Paso, we’re always getting the bum rap ... just simply for being on the border,” said Gilberto Salinas, vice president of the Brownsville Economic Development Council, sighing at the perception that Mexican cartel operatives can easily cross the narrow Rio Grande and open fire near schools, supermarkets and town squares, as they do in Mexico.

“People still think that we’re walking around with six-shooters,” he continued, “that the U.S.-Mexico border is still the Wild Wild West.”

Instead, the border centers of Brownsville, Laredo and El Paso have recently recorded low homicide figures, even as populations of those cities ballooned.

According to crime statistics analyzed by the Express-News, El Paso, the safest, had less than one homicide per 100,000 residents last year. Laredo had 3.81, and Brownsville had four. All had homicide rates lower than Houston, San Antonio and Austin, which last year tallied a homicide rate of 4.8 for every 100,000 residents.

“I think the stats speak for themselves,” said Raul Salinas, Laredo’s mayor and a former FBI agent.

At the same time, the cities saw tremendous growth over the last decade: Laredo and Brownsville surged nearly 34 percent and 25 percent respectively, while El Paso grew by about 15 percent to 649, 121, according to the U.S. Census Bureau.

“It’s not a coincidence that we are on steroids when it comes to growth,” said Salinas of the Brownsville development council, citing a lengthy list of Fortune 500 companies that have moved to the area, bringing jobs to both sides of the border.

Rumors persist in rural areas near the border that drug traffickers are targeting and intimidating ranchers, but confirmable incidents are few and far between. Steven McCraw, director of the Texas Department of Public Safety, insists the government has “lost operational” control of rural areas.

Traffickers, meanwhile, continue to fund their criminal enterprises, he said, making it more dangerous for U.S. citizens in Mexico and allowing the cartels to expand their influence in Texas.

And they have become increasingly confrontational with law enforcement officials.

“When they’re confronted by law enforcement, they run,” McCraw said of the traffickers. “They throw spikes. They have blocking vehicles. And they have drug cartel boats on our side and they have cartel operatives on the other side of the river.”

Perry — who has cast himself as a border hawk — regularly decries what he has said is a lot of spillover violence into the U.S., citing examples that, it turns out, are rare.

A look at drug-related killings in border cities during the four years since Mexican President Felipe Calderon came to power shows no relation between a rise in homicides in Mexican municipalities and the number of killings in their U.S. sister cities.

“There’s a lot more awareness and the efforts are a lot better coordinated intelligence wise and operationally,” said Gilberto Navarro, an assistant police chief in Laredo.

Brownsville has seen incidents described as spillover, such as the September 2010 double homicide of two alleged cartel operatives less than a mile from a Border Patrol station and the shutdown the year before of the University of Texas-Brownsville campus after stray bullets from Mexico struck a building, an incident Perry mentions in his book, “Fed Up!”

But the city’s murder rate, anywhere from five to 10 slayings a year, is in line with other cities of its size, said Brownsville officials.

“But now, somebody gets shot, automatically everybody will say it’s cartel related or it’s border violence,” said Salinas, with the economic development council.

Shoring up the Southwest border remains a priority for the administration. The Department of Homeland Security, which oversees international bridges and the Border Patrol, has a budget of \$57 billion for 2012, the largest since the agency’s creation in 2003.

And Texas regularly takes the bulk of the department’s Operation Stonegarden grant that provides funds to local law enforcement agencies along the border, \$17.77 million of the \$54.89 million spread over 18 states this year. The feds, too, have dispatched two drones to patrol the Texas-Mexico border, with a third on the way.

In addition, according to Perry’s office, Texas has spent \$400 million in the last five years on border security, including grants for local law enforcement agencies and deploying Texas Rangers to the Rio Grande.

For years, Perry has used the border and illegal immigration as a campaign tactic. But during last week’s debate, he was on the defensive as the other GOP candidates attacked his record, in particular his statements that the border fence is not an effective way to stop smuggling.

All the rhetoric about the border has officials in El Paso fuming.

Bob Cook, president and CEO of El Paso’s Regional Economic Development Corporation (REDCO), said he called Perry’s head of economic development the day after the Sept. 7 debate to again share data about the safety of El Paso. Of the five homicides in that city last year, three were attributed to domestic violence and the remaining two were a murder-suicide.

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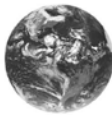
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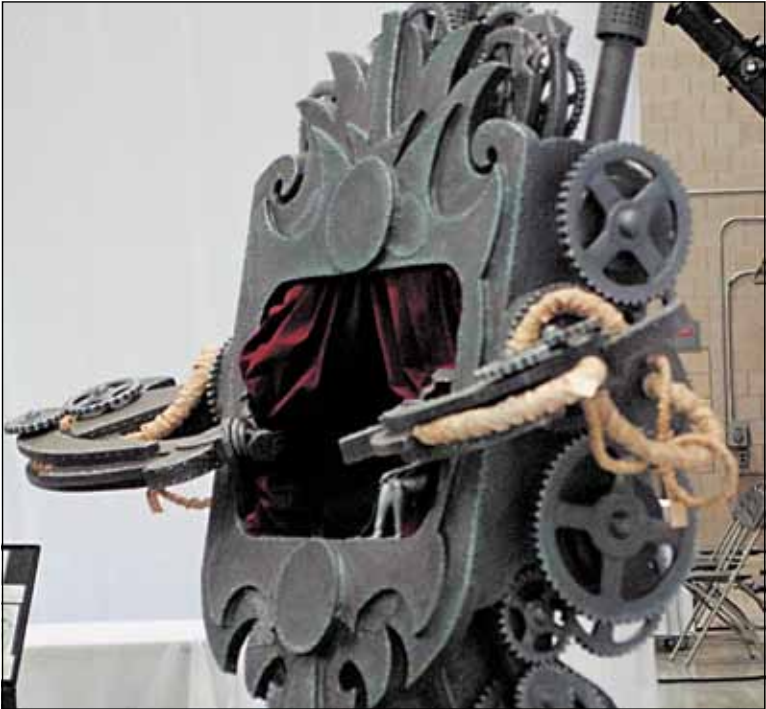
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SAMIRA DASWANI—THE TECH

Over the weekend, t=0 brought entrepreneurs, engineers, scientists, architects, inventors, and hackers together to find business solutions for real-world problems.



SAMIRA DASWANI—THE TECH

This futurist humanoid machine was featured at the art gallery space at t=0, the entrepreneurship conference that took place at MIT this past weekend. Engineers, scientists, architects, inventors, and hackers came together to invent something new.



SAMIRA DASWANI—THE TECH

Engineers, hackers, and others come together to take part in the Start-Up Lab at t=0 this past weekend. Each team proposed a business solution to a real-world problem: some proposed solutions to help change the educational landscape, and others tackled challenges in the health sector.



SAMIRA DASWANI—THE TECH

An instrument created by Jason Sidney Sanford and Zacharay Katz. Besides Sanford and Katz, t=0 also featured Mitch Kapor, the founder of Lotus Development Corporation; Brad Feld, the co-founder of Foundry Group and TechStars; Rich Miner, the co-founder for Android; Dharmesh Shah, the founder and CTO of HubSpot, and many more entrepreneurs and innovators.



SAMIRA DASWANI—THE TECH

A delicate work of art by Art Politis is showcased at the art gallery at t=0.



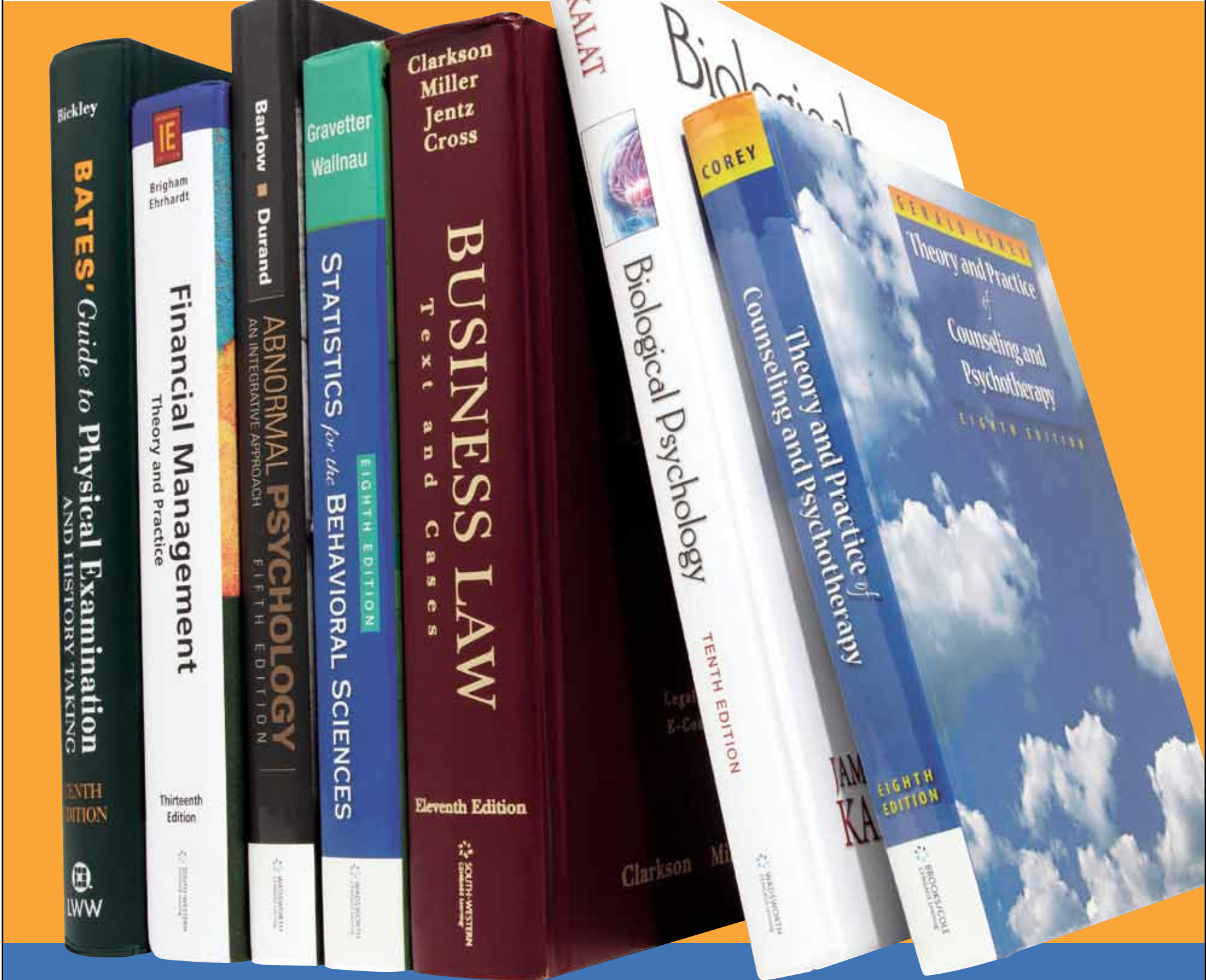
SAMIRA DASWANI—THE TECH

Instrument designer Jason Sidney Sanford displays one of his creations. Sanford also led a workshop focused on the importance of feedback in design.

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career week schedule

time	company	room
MONDAY		
12-1 P.M.	Pegasystem	W20-307
6-7 P.M.	HighVista Strategies	4-163
6-7:30 P.M.	InterSystems, Tessella	4-370
6-7:30 P.M.	Vecna	32-141
7-8 P.M.	Broadway Technology	32-155
7-8 P.M.	Exxon Mobil	6-120
7-8 P.M.	McKinsey	32-123
TUESDAY		
5-6 P.M.	DC Energy	4-270
5-6 P.M.	Allston Trading	4-370
5-7 P.M.	Aerospace Panel Aurora Flight Scienes, Orbital Sciences, United Technologies	37-212
6-7:30 P.M.	Salesforce, StumpleUpon	1-190
7-8 P.M.	Bridgewater Investments	32-141
7-8:30 P.M.	Chevron, Shell	6-120
7-9 P.M.	Consulting Panel Oliver Wynman, OC&C, BCG, Bain & Company, Booz Allen Hamilton	32-123
8-9 P.M.	BTS/APX Labs	4-163
8-9 P.M.	Stripe	4-270
8-9 P.M.	Coatue Management	4-370
WEDNESDAY		
11 A.M. - 5 P.M.	Career Fair	Johnson
6 - 9 P.M.	SWE Banquet	Hyatt Cambridge
6-7 P.M.	BMC Software	4-231
6:30-8 P.M.	ASML, Maxim Integrated	4-149
7:30-9:30 P.M.	Yelp, Autodesk, Raytheon BBN, Pixar	4-163
8-9 P.M.	CIA	4-237
8-9 P.M.	Andreessen Horowitz	4-231
THURSDAY		
12 - 2 P.M.	Networking Luncheon	McCormick/W20
5-6 P.M.	OATI	4-270
5-7 P.M.	Pixar, Justin.tv, Cisco, LinkedIn	1-190
5:30-6:30 P.M.	Sequoia Capital	4-370
7-8 P.M.	Yext	4-270
7-9 P.M.	Stroud Consulting	35-255
7-9 P.M.	Biotech Panel Merck, St. Jude, Edwards Lifesciences	34-101
7:30-8:30 P.M.	Chopper Trading	4-370
8:30-10 P.M.	Dropbox	6-120
FRIDAY		
6-7 P.M.	Interactive Intelligence	6-120

Frosh campaign vigorously

Elections, from Page 1

it,” said Hawkins. The UA Restructuring Committee, noted Hawkins, might propose changes which could fix a “lack of faith” in the UA among students.

Students may have noticed an increase in joke winners this year, such as Leopold the Cat — who was elected to represent off-campus students — and Pikachu and Totoro, who were elected to represent New House. Naked Abe Lincoln, a former UA senator who represented Bexley last fall (and in years prior), returned this year to win seats in Simmons and Bexley. Hawkins said that in cases where the winner is not an MIT student, the position goes to the student with the next highest number of votes. He added that “usually the winners that are not actual people are not published,” and the number of joke candidates is about the same as in past years.

Joke candidates were published this year, said Hawkins, “because I decided not to cover them up.”

Five Senate seats currently remain empty and must be filled by run-off elections. Simmons, New House, and McCormick all have an empty seat and two of the fraternity seats must also be filled. Candidates involved in a tie have been contacted and must decide whether or not they will participate in a run-off election.

Off-campus residents reported trouble voting online last week. This

is due to the system the UA uses to identify students’ residences; off-campus students appear to the voting system as having an unknown location, which prevents them from being able to vote. In order to fix this, they would have needed to email the UA Elections Commission. Hawkins said, “It’s not ideal, obviously, but it’s the best we can do.”

The campaign trail

Bruno B. F. Faviero ’15 — write-in winner of Class of 2015 Social Chair (also a *Tech* copy editor) — says he ran in order to “make this semester more exciting for freshmen,” but had to run as a write-in candidate because he missed the deadline for registration. Some of his event ideas for this semester include a Halloween Carnival, free hot chocolate, and a yoga/relaxation session in Killian Court. Running as a write-in, Faviero relied on word-of-mouth, emails, and Facebook to campaign.

“Write-in was pretty chaotic because you ended up with five people running last minute and then they’re spamming every available channel online,” he said.

But some freshmen have been annoyed with the amount of campaigning done on Facebook.

“Now I can see why people are promoting Naked Abe Lincoln,” wrote Adam M. Rodriguez ’15 on the Class of 2015’s Facebook page. “This whole ‘write in (insert name here)

for (insert position here)’ is getting pretty obnoxious.”

Another write-in winner, Hollie O’Brien ’15, won a Senate seat in Simmons without doing any campaigning. “I didn’t know I was running until I got [elected],” said O’Brien. She attributes her win to friends writing her in on the ballot. Many students “just wrote in [their] friends’ names,” she said. Now that she is Senator, O’Brien plans to have a card game night where she can discuss what Simmons residents want to see from the UA.

In other dorms, the campaign was more competitive. Caroline Shinkle, elected to Maseeh Senate, said she “went to every room in Maseeh to talk with [her] constituents ... and get them interested in the elections.” She cited lack of publicity as a problem with the current election process, saying “the election process needs to be advertised more, so people know to vote — know where to vote.” As Senator, she plans to increase awareness of the UA’s actions by holding weekly forums in Maseeh to “brief people on what the UA is doing and to get the thoughts and opinions of others.”

This fall’s elections were a combination of serious campaigning and joking write-ins. Regardless of the spirit in which they were elected, these representatives will govern the MIT student body this semester, minus a few cartoon characters here and there.



Several “joke” candidates nominally won UA senate elections, but will not actually serve. From left to right, Leopold the Cat, Totoro, Pikachu, and Naked Abe Lincoln (pictured here clothed) — who won two elections.

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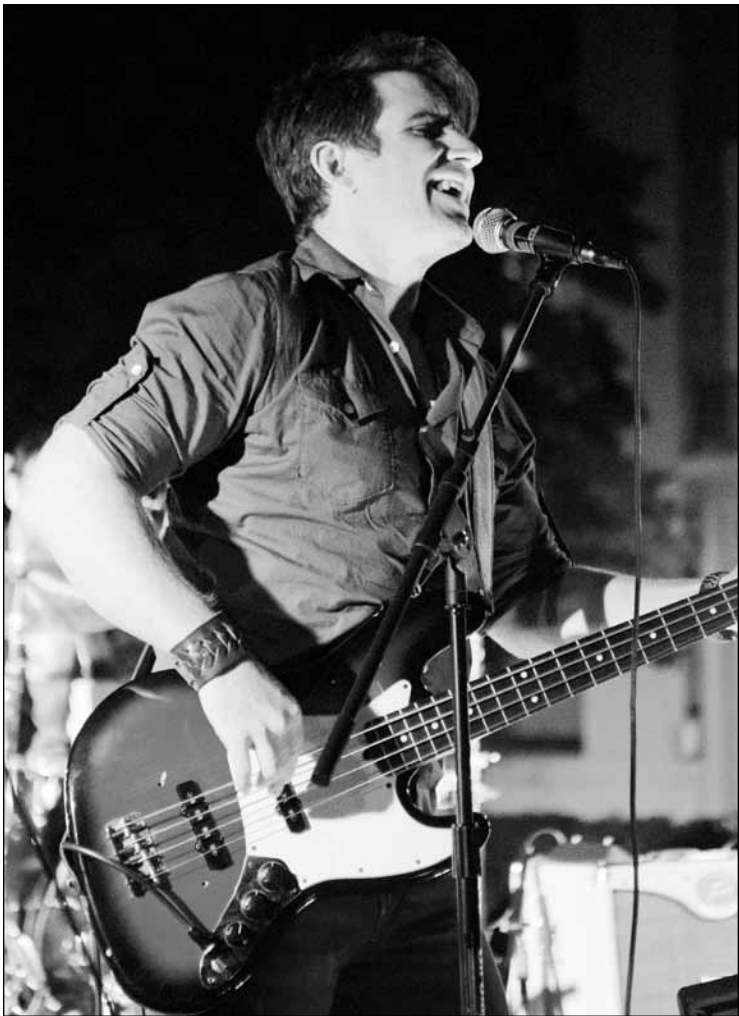


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Office of the
Vice President for Finance



TIFFANY HUANG—THE TECH
Mission Hill's bassist performs during Fredfest in the East Campus courtyard on Friday.

FredFest gathers rising local talent:

Adam Ezra Group, Mission Hill, and Air Traffic Controller

Fred Fest, from Page 1

Still young, the idea for FredFest was formulated in early 2008 by Graham and two students at Walker Memorial Basement Radio (WMBR), MIT's student radio station. It was a natural outgrowth of their regular show, which featured local bands and musicians. "Why not make [the show] live?" thought Graham.

FredFest is an introduction to

the local music scene — an integral part of Boston's nightlife culture — added Graham.

True to its roots, FredFest is still focused on fostering local music. He and WMBR are always on the lookout for small groups with high potential. FredFest is booked by February, in hopes that the then-unknown groups will explode over the summer and become circulating names by the time September rolls around, sometimes even on

the national scene.

Concert veterans and new attendees alike applauded this year's talent pool. "The bands were so much better than I expected ... the second percussionist, he really made it. That was stellar!" said Camille E. Richman '15.

Graham noted that the Boston music scene is swelling and bands now regularly approach him about playing in the annual concert, instead of him approaching them.

"The bands are all excited to play for MIT, to play for us, and every one that has gotten involved has had a good experience with that," said Delaney. Mission Hill, who also performed on the closing night of orientation, will return to campus in December.

Driving the works is the East Campus Concert Committee, a core of 7-8 students elected by the dormitory each January. Band selection is made solely through committee voting. The committee is also responsible for every aspect of concert organization, including acquiring funding from major student groups — Large Event Fund, Dormitory Council, and the Undergraduate Association — to keep the concert free.

Although FredFest is advertised as an East Campus event, its goal is to span the entire MIT community, said Graham. Each year, ConcertComm and WMBR receive more and more input from the whole student body regarding the musician roster, he remarked. In addition, planning will begin earlier this year so that FredFest V may be held in the Stratton Student Center, a more central campus location.

"[FredFest] Five — that's already an achievement," said Graham. "As long as the students are passionate, I'm willing to help. It's great to see them make it happen."

Delaney adds his perspective as an audience member: "It is built upon successes."

If FredFest IV is any indicator, its successor is not looking to disappoint. Stay tuned.



TIFFANY HUANG—THE TECH
"Adam Erza Group" invited 4th East onto the stage to perform with them at Fred Fest on Friday. Fred Fest is an annual outdoor concert hosted by EC.

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Solution to Sudoku

from page 8

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

Solution to Crossword

from page 7

OR	B	A	S	S	A	M	T	E	M	P	I
P	E	R	M	I	A	M	R	E	A	L	M
U	N	I	F	O	R	M	I	N	S	I	G
S	T	E	R	E	O	S	H	I	V	S	E
		A	B	C	S		Z	I	P		
		M	U	S	I	C	A	L	M	E	A
P	A	L	C	O	L	O	R	L	I	N	E
A	T	R	I	S	A	Y	S	O	S	P	U
R	E	I	N	S		M	A	U	N	A	E
C	O	C	K	T	A	I	L	L	O	U	N
		Y	E	P			U	R	G	E	
E	N	O	L	O	B	S		D	U	E	L
L	E	G	A	L	P	R	O	F	E	S	S
K	A	R	M	A		A	L	E	R	T	
S	P	E	A	R		S	O	U	S	A	

Solution to Techdoku

from page 8

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

Dropbox: Filesystem of the Internets

A tech talk by MIT alum and Dropbox engineer Dan Wheeler (06)



Thursday, September 22 at 8:30PM, Room 6-120

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SEPT 26

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9AM - 1PM

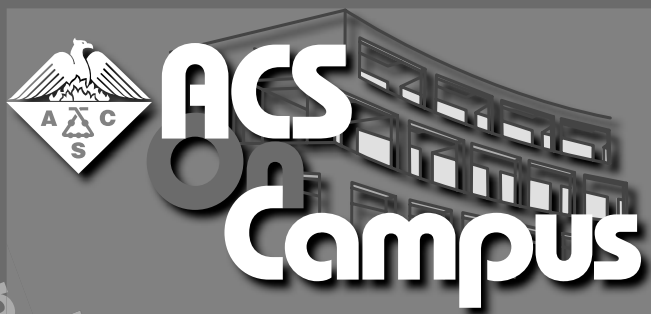
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Bush Room (10-105)
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Activists, doctors split on HIV bill

*Bill intended to
enhance patient
medical privacy*

By Kay Lazar
THE BOSTON GLOBE

A proposal to change how people give consent for HIV tests has divided AIDS advocacy groups in Massachusetts and upset major medical organizations, stymieing legislators trying to bring the state into compliance with federal recommendations aimed at promoting more testing.

At issue is a bill that would drop Massachusetts' requirement for specific written patient consent before a doctor tests for the AIDS virus — something 48 other states have done — and replace that with verbal consent. The measure would also require the physician note in the medical record the patient's decision.

The bill was crafted to bring Massachusetts in line with federal health officials' 2006 recommendation that states update their laws to make HIV testing more routine and widespread. They suggested that general consent for medical care, which is the permission required for tests such as cholesterol screenings, should be considered sufficient for HIV testing.

Only Massachusetts and Nebraska still require specific written consent for HIV testing, according to the National HIV/AIDS Clinicians' Consultation Center at the University of California, San Francisco.

Legislators this year, to accommodate concerns of some AIDS groups and others, added a provision to the bill to enhance patient privacy protections. It would prohibit health care providers from disclosing a patient's HIV-related medical information to outside health care providers without each time obtaining the patient's written informed consent.

That change is intended to ease patient concerns about test results being leaked. The language went too far, however, for other organizations, which originally supported the bill but now oppose it. A coalition of health care groups blasted that proposal last week, saying it would greatly hinder HIV patients' ability to get timely medical attention.

The coalition, which includes the Massachusetts Medical Society, the Massachusetts Hospital Association, and Fenway Health, which specializes in AIDS care, urged lawmakers and top health officials in the Patrick administration to block the legislation.

"I am not at all giving up, but I think we need to put all the same people in the same room and get them to talk to each other," said Senator Patricia Jehlen, a Somerville Democrat who filed this year's legislation. The bill has had a public hearing, been approved by two legislative committees, and is awaiting a vote in the Senate.

SMBC, from Page 8



Remembering Nicolás Castillo

Always the scientist and scholar

Castillo, from Page 1

News Office. “When he was a little boy, he was always out on the patio doing experiments with water, soil, bottles, whatever he could get his hands on.”

Beyond being an avid math student, Del Castillo also had many interests outside of academics. He enjoyed karate, origami, and music. His family says he taught himself to play keyboard and joined his school orchestra without ever taking a single lesson. In addition, Del Castillo was a fan of Cirque du Soleil and loved to study Shakespeare and drama.

Diana Henderson, an MIT literature professor, recalls being impressed by Del Castillo’s bravery and skill in her Writing with Shakespeare class last fall. The class had been acting out scenes from *Henry V* when another student backed out of his role at the last minute. Del Castillo stepped up and performed with passion. Henderson said that the whole class agreed that Del Castillo was the best actor in the class.

“Whenever I think of Nicolás,” said Dominique Forestier ’14, one of his Writing with Shakespeare classmates, “I will be reminded of a king.” “When asked his opinion on

something, he always gave an answer that made me reconsider my own,” Forestier adds. “It was evident that he was smart, but he was also humble.”

Another classmate added that “his ideas were always so phenomenal that most of us did not understand their complexity until he further explained.”

A good friend

Del Castillo’s classmates remembered that he was very shy but that something about him showed that he had a good heart.

For Del Castillo’s close friends, he was someone to trust. “More than once, I shared my personal problems with him,” says Cesar Cuenca ’14, “and he helped me with advice or made me realize that my problems were not a huge deal. I could trust him in keeping what I said as a secret.”

“He did not talk much, and I am glad to be one of his good friends he could talk to easily. Some good moments with him I will miss are speaking in Spanish, going to the movies in 26-100, or going for a milkshake at Toscanini’s,” Cuenca added.

“What I will miss the most is the friend that I could trust and talk easily about my life — bad and good things.”

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3:45 p.m. Community Reception
Pappalardo Room 4-349
4:15 p.m. Colloquium and Q&A
Introduction by Phillip A. Sharp, Ph.D.
MIT Institute Professor
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TIFFANY HUANG—THE TECH
Kristine A. Bunker '14 (left) and Rachel A. Hunt '14 block a shot during the women's volleyball game against Clark University on Saturday morning. After winning 3-0 against Clark, the Engineers defeated Simmons College 3-1.

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SPORTS SHORT

Wright sets Institute record in Women’s Soccer tie

The MIT Women’s Soccer team matched Clark University with a 0-0 tie in Saturday’s NEWMAC opener. Both teams came close to getting on the scoreboard, including a shot in the first overtime period by Leslie A. Meyer ’13 that was just barely wide. Even though the match ended in a stalemate, this was an important game for MIT’s goalie Meghan S. Wright ’13, who set an Institute record with 21 career shutouts. This record was previously held by Meg O’Neil ’93 and Connie Yang ’03 with 20 shutouts each. Wright finished the game with six saves to oppose Clark goalie Audrey Eiseman’s five. Next up for the Engineers is their first-ever match against Roger Williams University on September 21st.

—Sarah Weir, Associate Sports Editor

Cross Country teams dominate in UMass Invitational

The Men’s and Women’s Cross Country teams competed in the UMass-Dartmouth Invitational this past weekend. Both teams placed first, winning by wide margins.

The women’s team, ranked number five in the nation, finished with 25 points, to second-place Coast Guard’s 109. (The point total is the sum of team members’ finishing positions — lower scores are better.) All five runners finished in the top ten: Brooke C. Johnson ’13 was first overall, followed by Elaine D. McVay ’15 in third, Martina A. de Geus ’14 in fifth, Dacie J. Manion ’15 in seventh, and Tania K. Morimoto ’12 in ninth.

The men’s team, ranked eleventh nationally, compiled 31 points, to runner-up Brandeis’s 79. Daniel E. Harper ’12 finished second overall, followed by Stephen R. Serene ’12 in fifth, Spencer J. Wenck ’15 in seventh, Allen K. Leung ’15 in ninth, and Karl Baranov ’15 in 11th.

The Engineers will look to continue their strong performances in two weeks at the Bowdoin College Invitational.

—David Zhu, Sports Editor

UPCOMING HOME EVENTS

- Tuesday, September 20**
- Sailing Midweek Tech Invite I 4 p.m., Charles River
- Women’s Volleyball vs. Wellesley 7 p.m., Rockwell Cage
- Thursday, September 22**
- Women’s Tennis vs. Tufts 4 p.m., duPont Tennis Courts

Soccer falls to Springfield
Kabelac and Kramer lead strong opening games

By Zach Hynes
SPORTS STAFF

In a match befitting the undefeated squads from MIT and Springfield College, the Pride of Springfield earned a crucial victory with a strike from Kevin Nowak in the waning moments of the second half.

In its first four games, MIT’s attack overwhelmed opponents, averaging 4.5 goals per game. With Zachary E. Kabelac ’12 and John L. Kramer ’15 tallying five goals each on the season, and midfielder Nicholas A. Diamantoni ’15 creating opportunities through his tremendous speed, no opponent was able to hold the Engineers to less than three goals.

That all changed on Saturday when Springfield stifled the En-

gineers’ offense for 90 thrilling minutes. The first half set the tone for a game that featured stingy defense and excellent play from both goalkeepers. A rush by Diamantoni set up perhaps the best scoring opportunity for the Engineers of the half, but the Pride’s defense swarmed Alexander M. Dago ’15 and kept him from putting a strong shot on net.

With 15 minutes to go in the second half, the pace of the game quickened. Each attack drew a swift counterattack, and the inevitability of a breakthrough by one of these teams became more and more apparent. With 13 minutes remaining, Kramer went on a promising run and attempted a shot from close to thirty yards out, but his efforts were foiled by the physical play of the Springfield defense. Goalkeeper Dylan Sheldon Rankin ’12 made two spectacular saves against the

Springfield offense in the final 10 minutes before Pride freshman Kevin Nowak deposited the ball in the left-hand corner of the net with a shot from the right side with 3:38 remaining in the half. MIT would earn one more opportunity to equalize, but the Engineers failed to take advantage of a corner kick with 1:25 remaining.

MIT will hope to capitalize on more of the scoring chances it earns when the Engineers face Brandeis and Roger Williams in non-conference play this week. They will then head to Worcester on Saturday to take on the WPI Engineers. MIT is up against stiff competition within NEWMAC; six of seven teams in the conference produced winning records against non-conference foes. However, if Saturday’s match is any indication, the Engineers and their fans should be in for an exiting season.



TIFFANY HUANG—THE TECH

Forward Chester Chambers ’15 plays offense in the men’s soccer game against Springfield on Saturday morning. The Engineers lost 1-0 to Springfield, which scored their lone point during the second half.

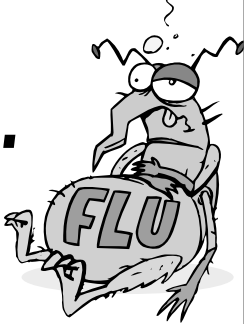


TIFFANY HUANG—THE TECH

Ekaterina R. Kononov ’12 runs through a line of WPI defenders after receiving the ball during the first women’s rugby game of the season on Saturday. The Engineers won 36-5 against Worcester Polytechnic Institute.

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Tuesday September 20th, 7pm-8pm, 32-141:

Technology Associate Information Session

Wednesday September 21st, 11am-5pm Johnson Athletic Center, Building W34:

Career Fair