



TUE: 61°F | 42°F
Sunny



WED: 54°F | 44°F
Chance of showers



THU: 49°F | 39°F
Rain

First campus-wide Hunger Week ends

Banerjee delivers keynote address on nutrition deficiency

By Naina Mehta

Last Thursday evening, Professor Abhijit V. Banerjee, co-founder of the Abdul Latif Jameel Poverty Action Lab, delivered a keynote speech for Hunger Week on nutrition deficiency in developing countries.

Throughout the course of his speech, Banerjee revealed

dramatic statistics on nutritional deficiency in countries like India, Indonesia and Bangladesh — 48 percent of children in India, in terms of nutritional requirements, are two standard deviations below where they should be.

He recalled an incident

Banerjee, Page 13

Fifty participate in 12-hour fast; over \$900 raised by MFWH

By Jessica Sandoval

For 12 hours, an estimated 50 participants battled an empty stomach during the MIT Fighting World Hunger (MFWH) club's first campus-wide hunger strike. The fast capped the MFWH-sponsored Hunger Week, held the week following World Hunger Day on Oct. 16, to promote

awareness of global food deprivation and malnutrition.

Approximately 100 individuals advertised the fast by wearing shirts that read, "Are you hungry?" though many said they did not participate in the half-day strike due to medical or athletic reasons. Throughout the week,

Hunger, Page 11



CHRISTOPHER A. MAYNOR—THE TECH

IN YOUR COMMUNITY

Meet Professor John Guttag

Former EECS department head started in English

By Kali Xu

STAFF WRITER

Bets — sometimes they're risky, sometimes they're funny, and sometimes, you wonder whether you were delusional at the time you made them. One bet can change your

life, for better or for worse.

Professor John V. Guttag (first syllable pronounced like "gut," not "goot"), co-head of CSAIL's Networks and Mobile Systems Group, can certainly appreciate the impact of a bet. The beginning of Guttag's career didn't predict such deep

involvement in computer science — he started out as an undergraduate at Brown majoring in English. The introductory computer programming course at Brown was known as legendarily difficult, so Guttag and his friend placed a bet as to whether he could pass it.

"It's sort of the classic thing, if you're an engineer and you look at someone in the liberal arts, you think that's just easy. 'Could I actually pass a real course?' was the question," Guttag said.

Guttag, Page 8

20 percent of MIT registered in Cambridge

According to the Cambridge Election Commission, as of Oct. 16, 1207 people living in precincts 2-2 and 2-3 are registered to vote in the upcoming municipal elections — about 20 percent of total population of these precincts. With a few exceptions, including an apartment complex at 100 Memorial Drive, all of the residential buildings within the boundaries of these precincts are owned by or affiliated with MIT.

The finalized numbers for this year will be reported by the Commission when they finish being compiled in a few days. The deadline to register to vote was this past Wednesday, Oct. 19.

A representative from the Cambridge Election Commission said that the number of voters registered fluctuates from year to year, and this year's numbers are not overly high or low compared to the changes between any other years. Last year, a total of 1370 people across the two precincts were registered to vote as of election day, but only 362 people cast ballots in the November 2010 election.

The nearest voting location for residents within these two precincts is Kresge Auditorium. Voters go to the polls on Nov. 8.

—Stan Gill

Saferide con-artist?

MIT Police issued an informational bulletin via email yesterday warning the MIT community of an unauthorized 18-passenger bus that had been charging students \$5 for transportation during overnight hours.

According to the bulletin, MIT Police stopped the bus on Sunday just before 3 a.m. on Amherst Alley near McCormick Hall, but MIT Police urges the community to report any reappearance of the vehicle. The bulletin also noted that official Saferide shuttles are marked "MIT Parking and Transportation," and drivers wear an MIT Parking and Transportation uniform.

Operations Manager of Parking and Transportation Larry Brutti had no additional information as of Monday afternoon. He said he's never heard of an incident like this before in his time at MIT.

Harvard had a similar incident earlier this year. According to a Jan. 24, 2011 article in *The Harvard Crimson*, an unmarked van driver charged students \$5 for transportation and claimed to work for a private charter company unaffiliated with Harvard.

—Maggie Lloyd

IN SHORT

Campus dining brunch hours were changed to 10 a.m. to 1 p.m. last Saturday. Previous hours were 11 a.m. to 2 p.m.

MIT's Fall Festival, featuring comedian John Oliver (*The Daily Show*), is this Friday in Kresge Auditorium at 10 p.m. Purchase tickets at <http://web.mit.edu/fall>.

Sign up for senior portraits with *Technique*, the MIT yearbook, this week. You can schedule an appointment online today at <http://photoappointment.com/>.

MIT's Solar Electric Vehicle Team placed 16 of 37 in the Veolia World Solar Challenge.

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

Suicide off Harvard Bridge last Thursday

Last Thursday, Oct. 20, Massachusetts State Police recovered the body of a woman from the Charles River after a witness reported seeing the woman jump off the Harvard Bridge into the river. The witness reported the jump around 6:20 a.m., and the body was recovered by police divers around 8 a.m.

According to a press release from Daniel F. Conley, Suffolk County district attorney, the woman was not carrying any identifica-

tion. Authorities identified her as a 21-year old Dorchester resident after the State Police released photographs of her jewelry.

Officials shut down the Harvard Bridge after the woman was seen jumping into the river. The bridge was opened again after the body was recovered, but delays from closure radiated outward to the Boston University bridge around 8 a.m.

—Derek Chang

STATE OF THE RACE

There's more than just a presidential election next year!

OPINION, p. 4

LAVERDE'S PRICE INDEX

See how LaVerde's prices change over time. **CAMPUS LIFE**, p. 9

RED LINE CLOSURES

Weekends, from November through March. **NEWS**, p. 14



INSTITUTE DOUBLE TAKE

Ever wondered about the Lobby 10 walls?

CAMPUS LIFE, p. 9

HEAD OF THE CHARLES!

The Tech was there, taking photos.

SPORTS, p. 16

SECTIONS

World & Nation . . . 2
Opinion 4
Fun Pages 5
Campus Life 8
Sports 16

Weather Systems		Weather Fronts		Precipitation Symbols		Other Symbols	
H	High Pressure		Trough		Snow		Fog
L	Low Pressure		Warm Front		Rain		Thunderstorm
			Cold Front				Haze
	Hurricane		Stationary Front			Compiled by MIT Meteorology Staff and The Tech	

News and Features Director: Pearle Lipinski
'12; News Editors: Jingyun Fan '12, Robert
 McQueen '12, Jessica J. Pourian '13; **Features**
Editor: Ana Lyons '12; **Associate News Editors:**
 Margaret Cuniff '13, Anne Cai '14, Derek Chang
 '14, Deborah Chen '14, Stan Gill '14, Rebecca
 Han '14, Leo Zhou '14; **Staff:** John A. Hawkinson
 '08, Arkajit Dey '11, Liz Tsai '11, Danielle Gorman
 '12, Ziwei Hao '12, Jiyeon Baek '13, Joy E. Lee
 '13, Divya Srinivasan '13, Aparna Sud '13, Evan
 Moore '14, Clara Park '14, Isabella Wei '14,
 Adisa Krueyatidee '15, Janelle Mansfield '15;
Meteorologists: Allison A. Wing G, Vince Agard
 '11, Roman Kowch '12, Shaena Berlin '13.

Editors: Judy Hsiang '12, Stephanie L. Ku '14, Sarah Ritter '14; **Staff:** Fareeha Safir '13, Ben S. Frank '14, Ian M. Gorodisher '15, Victoria Li '15, Syler Wagner '15; **Illustrators:** Monica Gallegos '11, Robin L. Dahan '12, Rachel Fong '12, Alison Malouf '12.

Editors: Nina Sinatra '12, Ryan Normandin '13; **Associate Editor:** Andy Liang '14; **Staff:** Florence Gallez G, Ronan Killian McGovern G, Alejandro Rogers B. G, Keith A. Yost G, Vinayak Ranade '09, Kavya Joshi '12, Rachel C. Bandler '13, Nils Molina '14, Mike Veldman '14, Haldun Anil '15.

Editors: David Zhu '12, Shelley Ackerman '13;
Associate Editor: Sarah Weir '14; **Staff:** Michael
Gerhardt '12, Zach Hynes '12, Nicholas Myers
'12, Nydia Ruleman '12, Carlos Greaves '13,
Russell Spivak '13, Nidharshan Anandasivam
'14, Katie Bodner '15.

Editor: Kathryn Dere '13; **Associate Editor:** Samuel Markson '12; **Staff:** Bogdan Fedeles G, Joanne Y. Shih '10, Philipp Diesinger '11, Jeff Z. Chen '12, Maggie Liu '12, Yü Linlin Huang '13, Emily Nardoni '13, Jenny Xie '13, Angélique Nehmzow '14, Natthida Wiwatwicha '14, Carolyn Zhang '14.

Editors: Jessica Liu '13, Sam Range '13, Jessica L. Wass '14; **Associate Editors:** Elijah Mena '13, Christopher A. Maynor '15; **Staff:** Melissa Renée Schumacher G, Manohar Srikanth G, Scott Johnston '03, Biyeun M. Buczyk '10, William Yee '10, Yuanyu Chen '12, Nicholas Chornay '12, Meng Heng Touch '12, Feng Wu '12, Arfa Ajazi '13, Elizabeth D'Arienzo '13, Samira Daswani '13, Tiffany Huang '13, Jaswanth Madhavan '13, Vivek Dasari '14, Jennifer Wang '14, Andrew Swayze.

Editors: Joanna Kao '13, Deena Wang '14;
Staff: Christine Yu '11, Maeve Cullinane '12,
Paul Woods '13, Amanda Aparicio '14, Nazia
Chowdhury '14; **Cartoonists:** Joshua Meisel
G, Emily Ruppel G, Irving E. Wang G, Michael
Benitez '12, Elise Stave '13, Ramya Swamy '14,
Timothy Yang '15; **Video Staffs:** Andrea Fabre
'12, Lourdes D. Bobbio '15.

Copy Chief: Michelle E. Szucs '14; **Associate Copy Chief:** Bruno B.F. Faviero '15; **Staff:** Laura E. Forte '15, Adam R. Suhl '15, Emily E. TenCate '15, Kali Xu '15.

Advertising Manager: Moya Chin '13;
Operations Manager: Jennifer Fong '13;
Staff: Mark Thompson '11, Wendy Cheng '13,
 Emmanuel Carrodegus '14.

Director: Quentin Smith '10; **Staff:** Maja R. Rudolph '13, Alex Chernyakhovsky '14.

Contributing Editor: Maggie Lloyd '12; **Senior Editors:** Brian Hemond G, Charles Lin G, Satwiksai Seshasai G, David M. Templeton '08, Jeff Guo '11, Steve Howland '11, Vibin Kundukulam '11, Michael T. Lin '11, Natasha Plotkin '11, Elijah Jordan Turner '11, Sherry Yan '11.

Karen Arenson '70, Paul E. Schindler, Jr. '74, V. Michael Bove '83, Barry S. Surman '84, Robert E. Malchman '85, Deborah A. Levinson '90, Jonathan E.D. Richmond PhD '91, Karen Kaplan '93, Saul Blumenthal '98, Frank Dabek '00, Daniel Ryan Bersak '02, Eric J. Cholankieril '02, Jordan Rubin '02, Nathan Collins SM '03, Keith J. Weinstein '03, Akshay R. Patil '04, Tiffany Dohzen '06, Beckett W. Sterner '06, Marissa Vogt '06, Andrew T. Lukmann '07, Zachary Ozer '07, Austin Chu '08, Michael McGraw-Herdge '08, Omari Stephens '08, Marie Y. Thibault '08, Ricardo Ramirez '09, Nick Semenkovich '09, Angelina Wang '09, B. D. Colon.

Editors: Connor Kirschbaum '13, Stephanie L. Ku '14, Ian M. Gorodisher '15, Syler Wagner '15; **Staff:** Victoria Li '15; **Copy Editors:** Michelle E. Szuxs '14, Bruno B.F. Faviero '15, Adam R. Ruhl '15, Kali Xu '15.

The Tech (ISSN 019-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. **Advertising, subscription, and typesetting rates available.** Entire contents © 2011 **The Tech.** Printed on recycled paper by Mass Web Printing Company.



The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@tech.mit.edu, and it will be directed to the appropriate person. You can reach the editor in chief by e-mailing eic@tech.mit.edu. Please send press releases, requests for coverage, and information about errors that call for correction to news@tech.mit.edu. Letters to the editor should be sent to letters@tech.mit.edu. The Tech can be found on the World Wide Web at <http://tech.mit.edu>.



Solution, page 14

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

Solution, page 14

60x			6x		6
288x			2x		5
4		270x			
6x		30x		4÷	
	3x		120x		8x
5		2		1	



transform:
YOUR LIFE
renew
THE CAMPUS
change
THE WORLD

INTERVARSITY
INTERVARSITY CHRISTIAN FELLOWSHIP/USA

Hosted by ACF, GreekIV, & MIT-IV

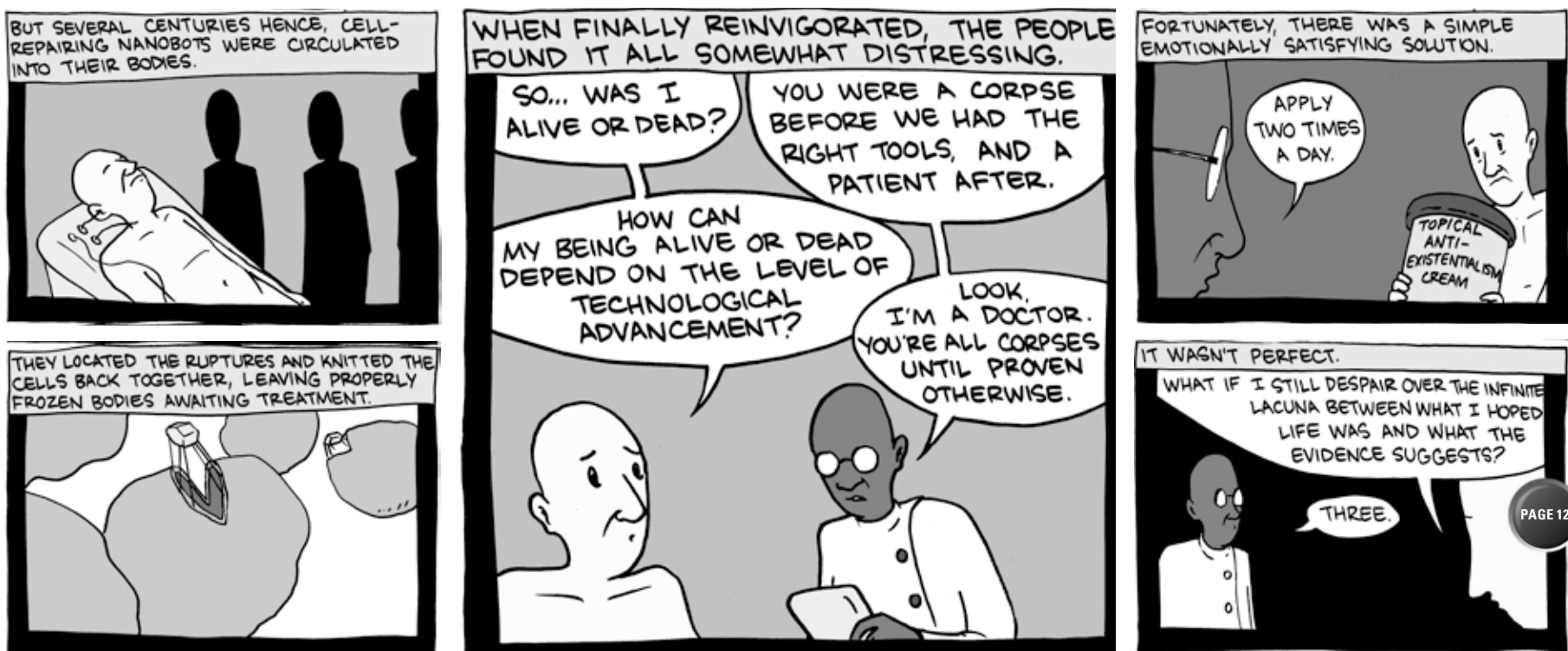
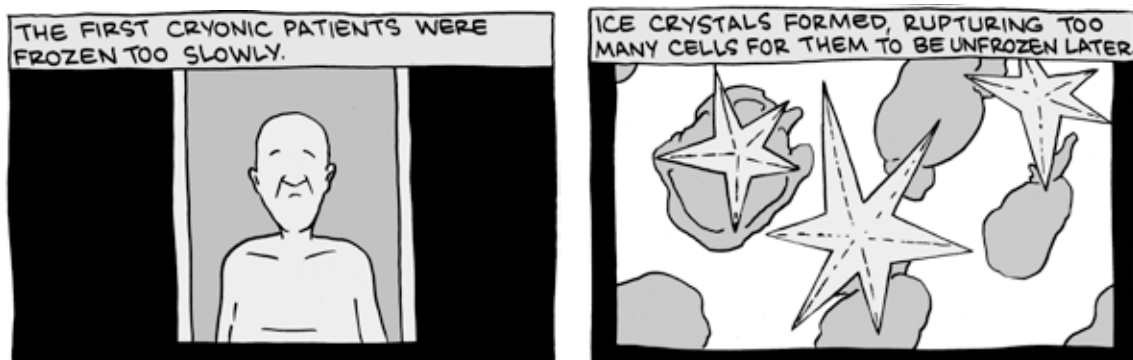
Katrina Relief Urban Plunge

Help rebuild New Orleans during Spring Break!

Rebuild & serve the city. Discuss your Q's about Jesus & justice. Make friends for life.

Info meeting. Lunch provided.
Wed, Oct 26th, 12PM @
Student Center Coffeehouse

contact: ivcf-staff@mit.edu



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

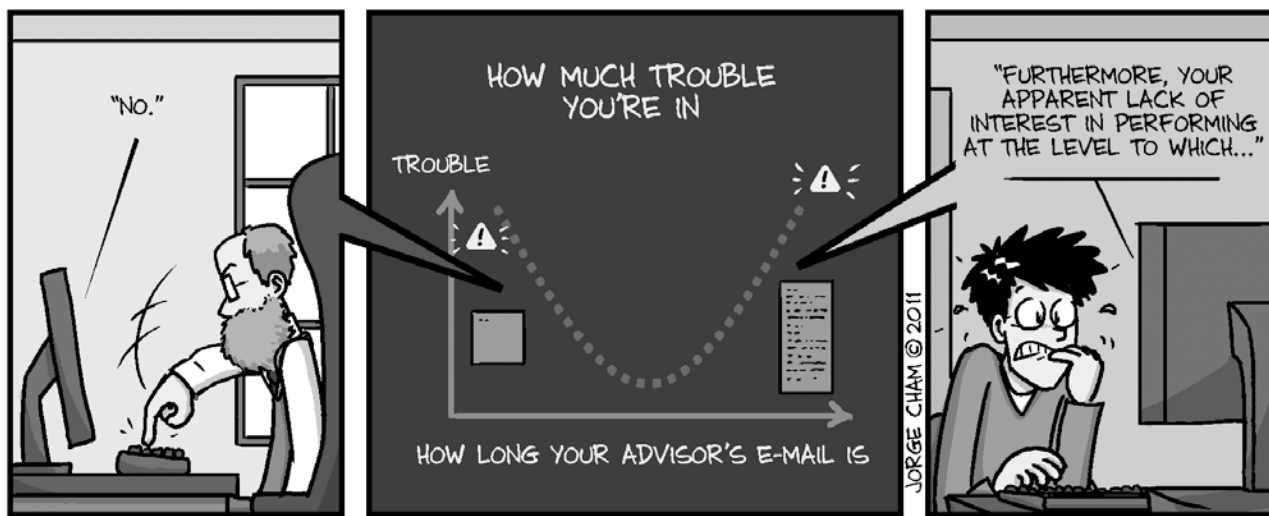
15x		6x		8x	24x
40x		36x			
			9+		3
12+		6x			5
6		4		4-	
3x		1-		4-	



PILED HIGHER AND DEEPER



by Jorge Cham



WWW.PHDCOMICS.COM



WWW.PHDCOMICS.COM

The Line



by Jerry Holkins
and Mike Krahulik



Crossword Puzzle II

Solution, page 12

ACROSS

- 1 Cheese town in the
 province of Noord-Holland
- 5 Cooper's tool
- 9 Like some potatoes
- 14 Snare __
- 15 Powerful 19th century
 Virginia family
- 16 Positive terminal, at times
- 17 "Imagination at work"
 company
- 20 N.Y. summer setting
- 21 Sale condition
- 22 Deceived
- 23 Stranded motorist's aid
- 25 Cambodian money
- 26 Fried-dough carnival treat
- 30 General on a Chinese
 menu
- 33 Fiesta Bowl site
- 34 Work units
- 35 Group including flower
 children's children, briefly
- 36 Pants fabric
- 37 Big conflict
- 38 Actress Blakley
- 39 Je t'__ : Parisian's "I love

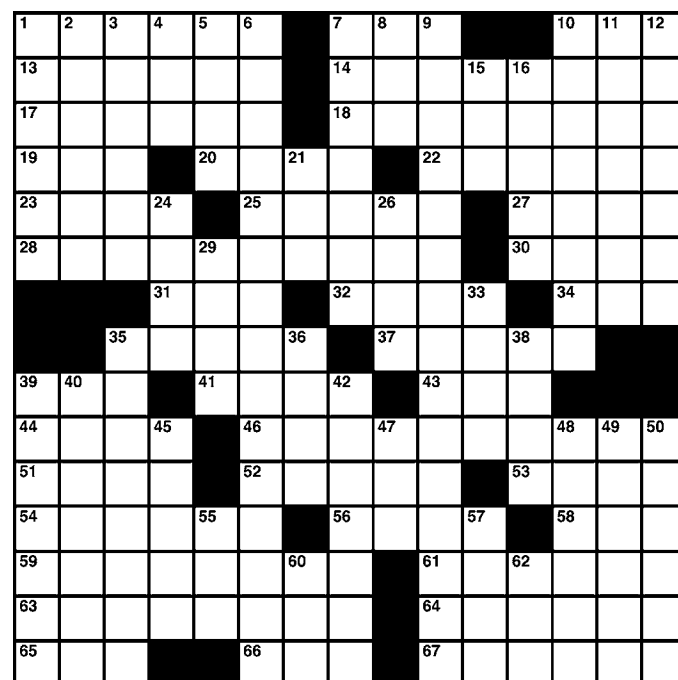
you"

- 40 Bouquet holder
- 41 Drambuie ingredient
- 42 Govt. ID issuer
- 43 Doors #1 hit covered by
José Feliciano
- 45 Innermost part
- 46 Grant and Vanderbilt
- 47 Spotted cat
- 50 Exceptional
- 52 Subway alternative
- 55 "The Prime of Miss Jean
Brodie" author
- 58 Cream of the crop
- 59 Doughnut shapes
- 60 Merrie ___ England
- 61 Begat
- 62 School founded in 1440
- 63 Ad, or word that can
follow the end of 17-, 26-,
43- or 55-Across

DOWN

- DOWN
- 1 Slight advantage
 - 2 Stowe novel
 - 3 Quaker Oats trademark
 - 4 Marseille Mrs.

- 5 Mount McKinley's state
- 6 Sub station?
- 7 Puzzle center?
- 8 Subj. taught bilingually
- 9 More risqué
- 10 Spy's briefing contents,
briefly
- 11 Firewood order
- 12 Correct, perhaps
- 13 Empire State Building
style
- 18 "Silent Spring" author
Carson
- 19 Inventor Howe
- 24 Winesap, e.g.
- 25 Contrition
- 26 Singer James et al.
- 27 Explorer aided by
Sacagawea
- 28 Dogma-rejecting spiritual
genre
- 29 Junk
- 30 Court bouncer
- 31 Show contempt
- 32 Kind of daisy
- 35 Silly
- 38 Stop and shop, e.g.



- | | |
|---------------------------------|-------------------------|
| 40 Artistic merit | 49 Mideast bigwig |
| 43 Came menacingly into
view | 50 Scream |
| 44 Large game fish | 51 Opening for dynamic |
| 45 1950s-'60s Yankee Boyer | 53 Pakistani tongue |
| 47 Laudatory poems | 54 Surfboard fin |
| 48 City SW of Bogotá | 56 Way to go: Abbr. |
| | 57 How the weasel goes? |

Guttag graduated as an English major, but changed to computer science after a bet

Gutttag passed the programming class, and he ended up loving it so much that he was inspired to study computer science. His decision was reinforced by the fact that “the job market for people with degrees in English wasn’t necessarily wonderful, compared to people who could write code.”

Since Brown lacked a computer science department, Gutttag entered the applied mathematics department for his master's "because that was where all the computing was done," he said.

'I took calculus first semester freshman year, and that was the last math course I took as an undergraduate. And then suddenly I find myself in an applied math department, trying to do a graduate degree.'

Although he may not have been as well prepared as some of the other graduate students, he appreciates his four years as an English major and has never regretted that trajectory. He said that it actually provided a great advantage, especially in an academic career, because it taught him to write efficiently. "Unlike some of my colleagues, over the years, it's never seemed to be a burden to sit down and write," Guttag said.

Guttag joined the MIT faculty in 1979, serving as associate department head for computer science from 1993 to 1998 and department head of EECS — the largest depart-



ment at MIT — from 1999 to 2004.

As department head, the favorite part of his job was hiring and mentoring young faculty members. He found hiring “bright young PhDs” and watching them succeed very gratifying.

Guttag's job isn't all about faculty. He currently teaches 6.00 (Introduction to Computer Science and Programming), a subject which attracts students from majors beyond Course 6. And when he's not teaching or planning lectures, he spends a lot of time meeting one-on-one with his students to talk about research and go over papers. "It's amazing how busy a group of productive

His lab investigates how to extract information from vast amounts of data, especially in the context of medicine. The goal is to help people make better, “data-driven” medical decisions.

'It isn't how many papers I can get published in which journals, it's how much impact I can have.'

Gutttag, a sports hobbyist, is also dabbling in sports data, like looking at the impact of pitch sequencing in major league baseball. “We have data on every pitch thrown in major league baseball over a century period, which is a lot of pitches. So when a batter comes up, fastball, curveball, inside, outside, [we see] how the sequencing affects the outcome.”

'I'm not one of those people who say, gee, I come to work because they pay me. I can't quite imagine life without it. I'm very fortunate to be able to say that about my job.'

Teaching and research make up most of Guttag's day. "This is going to be really embarrassing to admit," said Guttag when asked what he'd do with six months of free time, "but I would probably come to work. It shows a lack of ambition and imagination on my part, but I'm not one of those people who say, gee, I come to work because they pay me. I can't quite imagine life without it. I'm very fortunate to be able to say that about my job."



Overhear
something
funny on
campus?

Email overheard quotes to overheard@tech.mit.edu and we'll print the best in Campus Life.

Be a different kind of ENGINEER

**Be an Electronic
News
Gatherer**

The Tech is looking for enthusiastic students to join our new video team.

- **Video editors**
- **Broadcast reporters**
- **Videographers**



Email *join@tech.mit.edu*

Oracle to purchase cloud-based software firm

\$1.43 billion deal for RightNow Technologies will expand Oracle’s cloud footprint

By Evelyn M. Rusli
THE NEW YORK TIMES

Oracle announced plans Monday to acquire RightNow Technologies, a provider of Web-based customer service software, for \$1.43 billion, in a move that will expand the technology giant’s footprint in the cloud.

The acquisition, Oracle’s largest since its \$7.4 billion takeover of Sun Microsystems in 2010, is part of a larger push by the company to build out its so-called cloud-based software services, which are available remotely via the Web.

Historically, the enterprise market has been dominated by installed software, which typically involves large up-front fees and recurring service expenses. But in recent years, more companies, large and small, have started to migrate to the Web to manage their businesses and customer relationships at a potentially lower cost. Adam Holt, an analyst with Morgan Stan-

ley, predicted that corporations will increase their use of cloud-based services by at least 50 percent or more every year, for the next three years.

The shift has prompted many of the established technology players, including Oracle and Microsoft, to build or buy their own cloud offerings.

“This is the first time Oracle has made an acquisition of a bona fide software-as-a-service cloud company,” said Steven Ashley, an analyst at Robert W. Baird. “It raises the prospect that others, like SAP, will be more active.”

As competition intensifies, analysts say the sector could see more deal-making. Already, prices are rising. On Monday, Workday, another cloud-based software service, raised \$85 million, a deal that valued the company at nearly \$2 billion, according to a person close to the company.

The acquisition of RightNow may also signal that Oracle’s appe-

tite for acquisitions is strengthening once again.

Earlier this year, Oracle’s chief, Larry Ellison, said he was restraining his checkbook and focusing on organic growth because assets were “wildly overpriced.” While the company has made several acquisitions this year, it has focused on smaller, privately held companies, mostly in the under-\$1 billion range.

Then last week, the company purchased Endeca Technologies, a business intelligence software company that also offers products to help online retailers improve customer service. Although the size of that deal was not officially disclosed, Oracle paid up to \$1.1 billion, according to The Boston Globe, which cited documents and people with knowledge of the deal. Under the terms of the latest deal, Oracle will pay \$43 per share for RightNow, nearly 20 percent above Friday’s closing price.

“Oracle is moving aggressively to offer customers a full range of cloud

solutions including sales force automation, human resources, talent management, social networking, databases and Java as part of the Oracle Public Cloud,” Thomas Kurian, Oracle’s executive vice president of development, said in a statement on Monday.

The cloud is becoming increasingly important in Oracle’s lineup.

Earlier this month, Ellison unveiled what the company called the Oracle Public Cloud, a broad platform for enterprise services, marking the company’s first, formal entry into the market.

“We felt we had to move to a new generation, the next generation of technology,” Ellison said at the product launch.

In addition to focusing on customer service via the Web, RightNow’s technologies also provide social media

management, application development and search. If adapted to work with its existing software products, Oracle would be able to provide more robust solutions for companies, including offerings for databases, personnel and sales. It also puts Oracle in more direct competition with Salesforce.com, one of the leaders in cloud-based sales management software.

“If you look at what Oracle has done organically as well as through acquisition, it’s building out a complete suite for customer experience management,” said Holt of Morgan Stanley. “It’s a dynamic and rapidly growing space; there’s no clear leader, and Oracle is uniquely positioned to take advantage of the market.”

Quentin Hardy contributed reporting.

Bose is pleased to offer special savings for all students, employees and retirees of M.I.T.



Bose Wave® music system

Enjoy lifelike CD and radio music in your home, office or dorm room. Awake to award-winning sound.



Bose SoundLink® Wireless Mobile speaker

Music. Whenever. Wherever. From your mobile phone or any Bluetooth® device.



Bose IE2 audio headphones

Enjoy music and calls with high-quality audio. StayHear® tips for greater stability during exercise and other activities.

Please direct all inquiries to the “M.I.T. Purchase Program.”

1-800-298-BOSE (2673)

BOSE
Better sound through research

©2011 Bose Corporation. Delivery is subject to product availability.

WHEN IT COMES TO THE FUTURE OF SCIENCE AND TECHNOLOGY, YOU’VE GOT MORE THAN AN EDUCATED GUESS.



Participate in research about predicting world events.

Earn up to \$575.

SPADE

To participate in this online research study on forecasting, visit www.iSpade.net.
Must be at least 18 years old and a U.S. citizen.

Exceptional Egg Donor Needed

Loving couple in search of attractive, well-rounded/highly accomplished woman under 28 to help them become parents.

Compensation exceeding \$10,000 for the right donor & travel expenses paid.

Contact Dawn@ Fertilityalternatives@gmail.com or 858-391-8393 for more info on process & eligibility.

Following opportunity is open to eligible Sophomore and/or Junior students in the School of Engineering and the School of Science

THE BARRY M. GOLDWATER SCHOLARSHIP

The Barry M. Goldwater Scholarship and Excellence in Education Program was established by Congress in 1986 to honor Senator Barry M. Goldwater, who served his country for 56 years as a soldier and statesman, including 30 years of service in the U.S. Senate. The purpose of this program is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue careers in these fields.

The Goldwater Program provides scholarships of up to \$7500 per academic year. Sophomore scholarship recipients will be eligible for two years of scholarship support. Junior scholarship recipients will be eligible for one year of scholarship support.

If you feel you are qualified for one of these prestigious awards, please discuss this with your academic advisor or your Department Head.

Nominations must be from YOUR DEPARTMENT and are due at the School of Science or School of Engineering Dean’s Office (as appropriate to your major) by

Monday, November 14, 2011

For further information:
Contact your Undergraduate Officer,
<http://www.act.org/goldwater/> or <http://web.mit.edu/engineering/goldwater.html>
School of Engineering contact: Maria Marangiello, x3-8012, mariam@mit.edu
School of Science contact: Elaina Burke, x4-5691, eidzenga@mit.edu

MIT Fighting World Hunger holds Hunger Week

Raised proceeds from event to go to Pine Street Inn, Doctors without Borders

Hunger, from Page 1

MFWH raised over \$900 through their T-shirt and raffle ticket sales and various donations. These funds will be divided between Pine Street Inn, a local homeless shelter, and Doctors without Borders.

Overall, the hunger-awareness week was seen as a success by MFWH Vice President Laura R. Stilwell '14 because students were responsive to the cause. "I was surprised how fast it caught on. For example, within the first few days, all of our 100 T-shirts had been sold," said Stilwell.

Due to the high prevalence of malnourishment in both global and local communities, MWFH wanted to raise overall campus awareness, according to Stilwell. The primary goal of the hunger strike, specifically, was that MFWH "wanted people to realize how hard [living with hunger] is. In America, we are given this illusion of plenty, and that is definitely not the case," Stilwell said.

According to MWFH posters around campus, about one in seven people suffer from chronic hunger. This equates to roughly 925 million people worldwide who live with empty stomachs or malnutrition, 98 percent of whom live in developing nations, according to The Hunger Project, a global non-profit organization that seeks to end world hunger. According to a 2010 report on hunger by Project Bread, a Massachusetts organization that seeks to eliminate hunger, nearly 660,000 Massachusetts residents are at risk or are affected by hunger.

For Hunger Week, MFWH scheduled talks by guest lecturers and collaborated with hunger outreach organizations, such as Challah for Hunger on campus and Doctors Without Borders. Part of the funds raised by Challah for Hunger through their challah sales were given to MFWH, and Doctors without Borders will receive funds from MFWH to support a malnutrition-focused project in Southern Africa.

Stilwell said that MFWH hopes to continue Hunger Week as an annual tradition and expand its campus activities. In an effort to raise awareness of malnutrition, MFWH is planning on hosting a hunger banquet — where attendees are designated into a "social class," and served meals associated with their class level — in the spring in collaboration with the Harvard Hunger Initiative. Until then, MFWH will be rooting itself in efforts to fight local and global hunger.

MFWH can be contacted via email at mfw_h_exec@mit.edu.



Members of the MIT Fighting World Hunger club raise awareness of global hunger and malnourishment issues in Lobby 10 last week. The club-sponsored Hunger Week ended with a strenuous twelve hour fast in which around 50 people participated.

JESSICA SANDOVAL

LEMELSON-MIT

Celebrating innovation, inspiring youth

\$30,000 Lemelson-MIT Student Prize

APPLICATION DEADLINE:
DECEMBER 14, 2011

Inventive, problem-solving
graduate students or graduating
seniors at MIT, apply today!



web.mit.edu/invent/student



UNLEASH ENTREPRENEURS:
UNLOCK ECONOMIES

THE LEGATUM CONVERGENCE
presented by the Legatum Center at MIT

October 27-28, 2011
E14, MIT Media Lab Complex

This annual conference explores the challenges and opportunities
entrepreneurs encounter in developing countries



Please join us!
For more information or to register, visit
http://legatum.mit.edu/conference2011_registration

Thinking about Graduate School in Public Policy or
Political Science?



Is graduate school the right choice for you?
Where should you apply?
What's the best way to get in?
Should you take time off or go right to school?
What can you do with a graduate degree in
political science or public policy?

Information session
Wednesday, October 26
5:00 - 6:30 pm
E53-485

Pizza and soda!

Contact Tobie Weiner (iguanatw@mit.edu) with questions.

CUSTOM PRINTED & EMBROIDERED
T-SHIRTS
SWEATSHIRTS - POLOS - HATS & MORE!

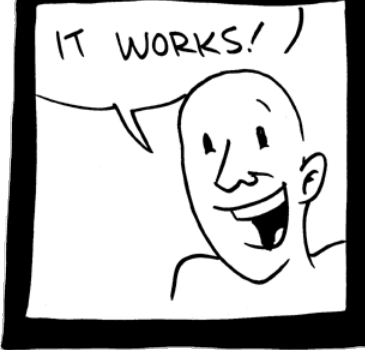
ph - 617-625-3335
email - info@qrsts.com
www.qrsts.com
Somerville, MA



Solution to Crossword I
from page 7

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

SMBC, from Page 6



Banerjee: Tech may be solution to nutrition deficiency

Cites Indonesian iron-fortified fish sauce as example of such technology

Banerjee, from Page 1

from a trip to a village in Morocco, when he asked a villager what the latter would buy if he was given money. The villager said, “Buy food.” And if he was given a little more money? Again, the villager said, “Buy food.” Yet when Banerjee walked into his house, there was a flat screen television, a parabolic antenna, and a DVD player.

“He was not posturing, but he said that television is more important than food. For him, his life was very boring — he lived in a village, he did not have much work, there were only a few people, so not much scope for entertainment,” explained Banerjee.

If people do not see themselves as starving, then they will not eat extra food, Banerjee said. Instead, they will sell it. “They are people after all; they naturally have their own judgments. And this is what economists usually miss,” he said.

“People are underweight; food is one way to not be underweight. But what has been observed is that as people are becoming rich, they are spending less on obtaining essential calories. Money is going to fund entertainment of all sorts,” he elaborated. He added that he thought it unrealistic to

believe that people would be psychologically rational with regards to something as fundamental as food.

According to Banerjee, the primary barrier to solving nutrition deficiency problems is people’s mindsets. For example, said Banerjee, iron pills are inexpensive or free in many countries — but it is difficult to convince people that these pills are good for their health, and ensure that they take the supplements.

“What’s the cost of taking an iron pill everyday? Nothing. What costed a lot was making sure they took it everyday,” said Banerjee.

In Indonesia, as a substitute to iron pills, fish sauce is fortified with iron. Though this is more expensive than simply taking a pill, it ensures that people get their necessary dose of iron.

Banerjee cited this fish-sauce approach as a simple solution to a far-reaching problem.

“Getting people to understand the importance of nutrition is a long-term fight, it is not a trivial fight. I am usually not the one who advocates technology as the solution. But here I think that technology will be very close to solving all these nutrition deficiency problems,” he concluded.

Start Your Career in Accounting.



Northeastern’s MS in Accounting/MBA for non-accounting majors:

- Earn two degrees in just 15 months.
- Complete a 3-month paid residency at a leading accounting firm.
- Proven track record of 100% job placement.

Take the first step.

Visit our booth at the Information Session.

Date: September 21, 2011

Time: 5:00 - 9:00 pm

Location: Sherman Function Hall, Hassenfeld

Learn more about the program and upcoming events at:
www.msamba.neu.edu.

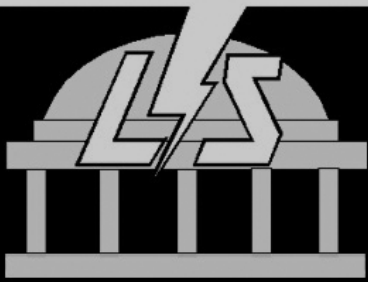
 **Become our fan on Facebook.**
facebook.com/northeasternuniversitymsamba

617-373-3244
gspa@neu.edu
www.msamba.neu.edu

Northeastern University

Experience an intensive six-day leadership development and community-building program over IAP this year. Join MIT faculty and administrators and 70 of your fellow undergraduates for this incredible experience!

Apply to LeaderShape!
web.mit.edu/leadershape



Application deadline is
Friday, November 4th 2011
LeaderShape will be held January 20-25, 2012

Red Line to temporarily stop weekend service from Harvard to Alewife, starting November



MARISSA BABIN, VIA FLICKR

A Red Line train arrives at Alewife, in this 2009 photo. Red line trains will not be running between Alewife and Harvard on weekends from November through March as the Massachusetts Bay Transportation Authority (MBTA) performs maintenance. The trains will be replaced by bus service — stay warm!

Microsoft Online Services Division in China
Lead the Change in Your Career

Time and Location

10am-1pm, Saturday, November 5th, 2011, Microsoft New England Research & Development Center,
11th Floor Common, 1 Memorial Drive, Cambridge, MA 02142

Featured Speakers

Harry Shum, Corp. Vice President, Search Product Development, OSD
Yongdong Wang, General Manager, Search Technology Center Asia (STCA)

Please R.S.V.P to Susan Goodwin <sgood@microsoft.com> if you plan to attend.

Event Summary

China has enjoyed unprecedented economic growth over the past few decades – growth that shows no signs of abating. This growth is particularly astonishing in the fast-evolving Chinese Internet. China now has the world’s largest Internet population with over 400 million Internet users.

In this forum senior leaders from the Microsoft Online Services Division (OSD) China and U.S. teams will discuss OSD’s commitment and strategy, as well as online market potential in China. They will provide an overview of OSD’s current R&D investment in the country and the role China plays in growing the OSD business. You will learn from their vision and firsthand experiences building a sustainable, world-class engineering organization that fosters innovation and is transforming OSD in China and globally.

Microsoft STCA China is hiring! Why Microsoft China? Why Beijing? Why Now?

- Opportunity to establish your network internationally
- International experience is key to career growth
- Beijing is growing exponentially and opportunities today might not present themselves anymore in the next 3-5 years
- Beijing is more environmentally friendly
- Beijing’s infrastructure is much improved
- Beijing’s entrepreneurial environment is prime

Join the discussion, make new friends, have some fun, and see how you can get involved!
Food and beverage will be served.

Solution to Techdoku I
from page 5

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

Solution to Techdoku II
from page 6

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

Solution to Sudoku
from page 5

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

Solution to Sudoku
from page 6

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

Can you beat this drawing?
Join Illustrators at The Tech!
E-mail join@tech.mit.edu

Amgen to pay \$780 million to settle suits on its sales

World's largest biotechnology company accused of illegal sales and marketing tactics

By Andrew Pollack
THE NEW YORK TIMES

Amgen said Monday that it had set aside \$780 million to settle various federal and state investigations and whistle-blower lawsuits accusing it of illegal sales and marketing tactics.

Amgen said it had reached an agreement in principle to settle criminal and civil investigations that had been under way for several years by the U.S. attorney offices in Brooklyn and Seattle.

The company said a settlement, which it expected to be concluded in three to four months, would also resolve state Medicaid investigations and 10 whistle-blower law-

suits. It is not clear if the company will plead guilty to any criminal charges.

Most of the whistle-blower lawsuits remain under seal, but Amgen has said in regulatory filings that the lawsuits “allege that Amgen engaged in a wide variety of illegal marketing practices.”

The federal investigations, according to Amgen, seem to involve marketing, pricing and dosing of its anemia drugs, Aranesp and Epopgen, and its dissemination of information about clinical trials on the safety and efficacy of those drugs. Numerous current and former executives have received civil and grand jury subpoenas, the company has said.

One whistle-blower lawsuit that was unsealed accuses the company of overfilling vials of Aranesp, essentially providing doctors with free amounts of the drug to give patients and then charge to Medicare, Medicaid or private insurers.

The lawsuit said that Amgen tried to persuade doctors to use Aranesp, rather than Procrit, a rival drug made by Johnson & Johnson, by pointing to the extra profits the doctors could make by using the overfill and billing for it.

The lawsuit was filed by Kassie Westmoreland, a former Amgen sales representative and Aranesp product manager. The federal government declined to join the lawsuit, but several states did join, in-

cluding New York and California. Westmoreland would be entitled to part of any settlement under whistle-blower statutes.

In the past, Amgen has said the accusations were without merit.

During depositions in the case, five former Amgen executives invoked the Fifth Amendment against self-incrimination, according to court documents.

That case was scheduled to go to trial in the U.S. District Court in Boston on Oct. 17, but the trial was

then called off, apparently because a settlement was near.

“We are very encouraged by the agreement in principle and will comment further at the appropriate time,” lawyers for Westmoreland said.

Amgen, the world’s largest biotechnology company, revealed the agreement in its earnings announcement for the third quarter. It said the charge for the settlement reduced its third-quarter earnings per share by 77 cents after taxes.

→ MISTI MIT CHINA

MIT International Science and Technology Initiatives



Sample CETI Locations

- Dalian University of Technology
- Sichuan University
- Kunming University of Science & Technology
- Qinghai University
- Huazhong University of Science & Technology (Wuhan)
- Vocational Training Council (Hong Kong)
- ZhuZhou No. 8 Middle School
- Xi'an Gaoxin No. 1 High School
- YuanZe University (Taiwan)

MIT Massachusetts Institute of Technology

MIT-China Educational Technology Initiative

Teach in CHINA, Hong Kong, Taiwan this summer!

All expenses paid!
No language skills needed to apply!
Apply Online Now!! @

<http://web.mit.edu/mit-ceti/www/>

Application Deadline: October 31

MIT-CETI: ceti@mit.edu

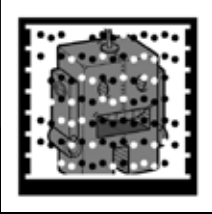
Microsoft®
Robotics Developer Studio 4
Beta

Robotics @ Home competition

Do you have a cool idea for an @home robot?

A clever robot that could make your breakfast, turn on the lights or grab you a beer?

Well here's your opportunity to show us what you've got and win up to \$10,000 in cash.



Get the free mobile app
<http://gettag.mobi>

Submit your entry by November 30
Check it out at:
<http://www.roboticsathome.com>

Join MIT Emergency Medical Services



APPLY NOW
IAP EMT Class
ems.mit.edu

Application Deadline:
October 30th

—Carlos Greaves, Sports staff