

4 MacVicar recipients

For contributions to education, MIT professors awarded \$10K fellowships

By Jesse Kirkpatrick
STAFF REPORTER

Last Friday, four MIT professors were announced as this year's MacVicar Fellows; William Broadhead, Class of 1954 career development associate professor of history; Leslie P. Kaelbling, Panasonic professor of computer science and engineering; David Kaiser, Germeshausen professor of the history of science; and Nancy L. Rose, Charles P. Kindleberger professor of applied economics. The MacVicar Fellowship recognizes MIT professors for outstanding contributions to undergraduate education. These professors will hold their fellowships for a 10-year term, during which they will receive \$10,000 annually for educational activities and other scholarly expenses.

"Overwhelmingly, I'm humbled, and I'm just so deeply honored," said Kaiser.

This year's fellows were announced at a symposium on Friday dedicated to Margaret L.A. MacVicar '64, MIT's first dean for undergraduate education, and Robert J. Silbey, former dean of MIT's School of Science. Silbey passed away last October.

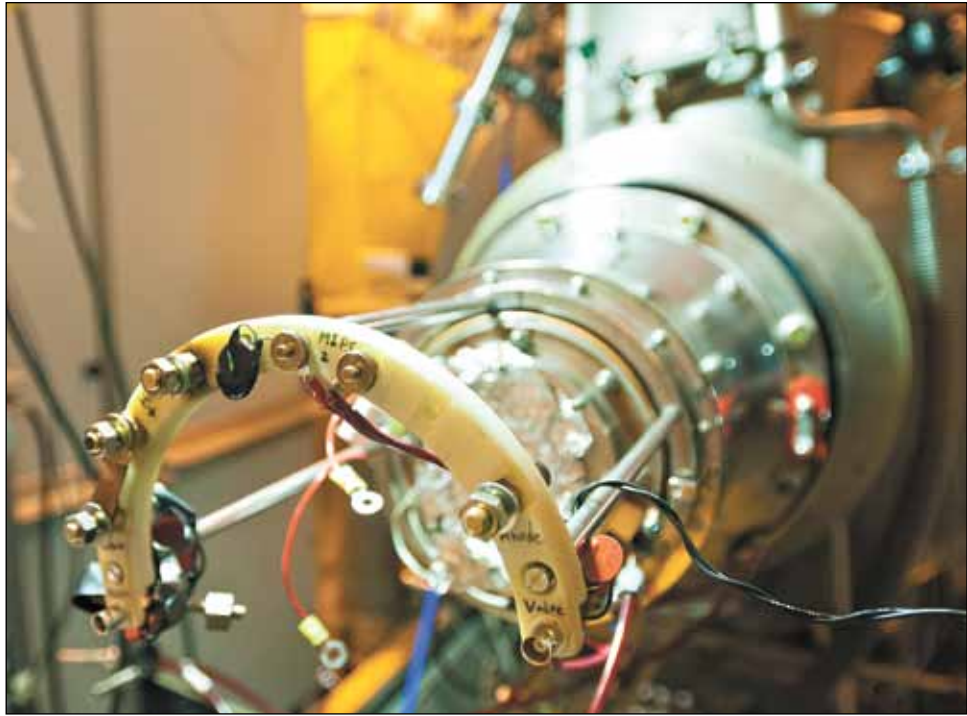
According to Mary Z. Enterline, associate dean of the Office of Faculty Support, MacVicar fellows were nominated through a rigorous process that involved, among other components, a primary nomination letter and letters of support from department heads, colleagues, and undergraduates. A committee consisting of students and faculty reviewed the nominations and submitted recommendations to Provost L. Rafael Reif, who made final decisions. Daniel E. Hastings, dean for undergraduate education, said during the symposium that a record number of nominations were submitted for this year's cycle.

"It was a huge surprise," said Broadhead. "I had no idea that this was even a possibility. My colleagues had kept it very secret."

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Alcator C-Mod's funding might be cut

Proposed budget cuts will put US fusion research & education at risk



CHRISTOPHER A. MAYNOR—THE TECH

The neutral beam accelerator at the MIT Plasma Science and Fusion Center's Alcator C-Mod tokamak. The laboratory, centered around the tokamak, or magnetically confined nuclear fusion device, faces significant cuts under the 2013 presidential budget request. The accelerator fires neutral particles into the plasma, resulting in an X-ray emission that can be used to visualize the plasma within and study its behavior.

By Austin Hess
STAFF REPORTER

Alcator C-Mod — MIT's tokamak, a toroidal plasma confinement fusion device — is currently facing the possibility of getting all of its federal funding cut.

Housed in NW21, Alcator C-Mod has been in operation since 1992. It is one of the three major U.S. plasma fusion facilities and can produce the highest magnetic field and plasma pressure of any such device in the world. Nuclear fusion research aims to find ways in which a self-sustaining fusion reaction could provide a viable energy source.

President Obama's proposed budget for fiscal year 2013, however, would cut all federal funding to Alcator C-Mod, which received \$24 million from the Department of Energy in 2012, forcing the termination of the program. That amount, which currently constitutes almost the entire budget of the project, would be instead be used as part of the U.S.'s contribution to the International Thermonuclear Experimental Reactor (ITER), a plasma fusion

Alcator, Page 9

OBITUARY

Course 11 professor passes away at 68

Remembering Alice H. Amsden, prolific scholar & political economy expert

MIT NEWS OFFICE

Alice H. Amsden, an expert in economic development who served as the Barton L. Weller Professor of Political Economy in MIT's Department of Urban Studies and Planning, died suddenly on March 15 at her home in Cambridge. She was 68.

A prolific scholar, Amsden wrote extensively about the

process of industrialization in emerging economies, particularly in Asia. Her work frequently emphasized the importance of the state as a creator of economic growth, and challenged the idea that globalization had produced generally uniform conditions in which emerging economies could find a one-size-fits-all path to prosperity.

"She will be sorely missed," said Amy K. Glasmeier, profes-

sor of geography and regional planning and head of MIT's Department of Urban Studies and Planning. "Upon hearing the news, one student said to me, 'she was a titan' in the field of development. While others took the conventional way, Alice took another path. She was fearless. By any measure, Alice was one of the most, if not the most, accomplished heterodox economist in the world."

Amsden wrote or co-authored seven books, and dozens of journal articles, essays, and chapters in edited volumes. She also wrote frequently for general-interest publications; her work appeared in *The New York Times*, *The Nation*, *Dissent*, *Boston Review*, *Technology Review*, and others.

One of Amsden's best-

Amsden, Page 12

IN SHORT

The 2012 summer housing applications will be available to undergraduates on March 26.

Registration for the CPW ASA Midway will open this week at <http://community.mitcpw.org/pages/asa.shtml>.

The Institute Awards Convocation nomination deadline has been extended to March 26. Nominations can be submitted at <http://awards.mit.edu>.

The GSC and the UA will be hosting presidential search forums today at noon in 3-442 and at 5:30 p.m. in E51-376, and March 22 at 7:30 p.m. in Lobdell. Students can register online at <https://signup.mit.edu/mitpresidentsearch>.

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



DAVID DA HE—THE TECH

Two-time World Ten-Dance champions Ivetta Lukosiute and Gherman Mustuc perform a professional showcase on Saturday, March 17 in Rockwell Cage. The showcase was part of the MIT Open Ballroom Dance Competition held this weekend, on March 17 and 18.

Kendall Biogen back

Biogen to return to Cambridge in 2013

By Clara Park
STAFF REPORTER

Joining the growing biotechnology industry presence in Cambridge, in 2013 Biogen Idec, the third largest biotechnology company in the world, will move its executive office from its location in Weston, Mass. to Kendall Square. The move reverses the company's relocation two years ago, when Biogen Idec's headquarters (including sales and marketing) moved from Cambridge to Weston, leaving its Research and Development (R&D) division in Cambridge.

Biogen Idec will move to two new locations next to the current R&D center near Kendall Square. According

to the *Boston Globe*, one will be a 190,000-square-foot building at 17 Cambridge Center, and the other will include five new buildings in a 305,000-square-foot area just across Binney Street. With the return of 530 employees to Kendall Square, the company will put the entire workforce in Massachusetts in a single location.

Cambridge-based Biogen was co-founded by Harvard biochemist Walter Gilbert and MIT Professor of Biology Phillip A. Sharp in 1978 before merging with the San Diego, Calif.-based IDEC Pharmaceuticals. In recent years, however, Biogen Idec had outgrown its space at 14

Biogen, Page 11

COLLEEN T. ROCK: ATHLETE OF THE WEEK

How does she balance MIT and national sled hockey? **SPORTS, p. 15**

ENGAGE IN THE SEARCH!

Students should be more active in the presidential search. **LETTERS, p. 4**

THE FUTURE OF THE USPS

How does technology fit into the picture? **NEWS, p. 11**



HISTORIC SEASON DRAWS TO A CLOSE

Men's basketball finishes at the Final Four. **SPORTS, p. 16**

PLYOMETRICS

Need an idea for a new type of workout you can do anywhere? **CAMPUS LIFE, p. 7**

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Publicity push as health law's court date nears

**By Jennifer Steinhauer
and Robert Pear**
THE NEW YORK TIMES

WASHINGTON — Republicans on Capitol Hill have put together a highly coordinated two-week renewed assault on the health care law, seizing on the legislation's second anniversary and the next week's oral arguments before the Supreme Court concerning its constitutionality.

On Monday, congressional Republicans took to the floor of both chambers to denounce the law, presaging a vote in the House this week to dismantle the law's payment

advisory board, the 26th legislative attack on the law in the Republican-controlled House in the 112th Congress.

Daily news conferences are planned on the Hill next week, featuring state attorneys general, lawmakers who are physicians and others.

Republican members are also holding sessions on Twitter, making videos and scheduling television interviews day and night, with one veteran lawmaker, Sen. Roy Blunt of Missouri, appearing on Fox News on Monday.

On the Senate floor Monday, Ron Johnson of Wisconsin said, "The rea-

son I ran for the United States Senate was primarily because of this law." Outside groups like the National Federation of Independent Business and Americans for Tax Reform are joining the efforts. Roughly 50 events are planned this week alone by party leaders and members.

Republicans are hoping to influence election-year public opinion on an issue where they believe they have a substantive advantage, and to drag the conversation away from areas like access to contraception that have dominated the campaign or divided members in recent weeks, with less success for their party.

US completes sale of \$225 billion in mortgage-backed securities

By Annie Lowrey
THE NEW YORK TIMES

WASHINGTON — The Treasury Department announced Monday that it had finished selling the \$225 billion in mortgage-backed securities it bought to help stabilize the markets during the worst of the financial crisis.

The government ended up making a \$25 billion profit on the securities, which are guaranteed by Fannie Mae and Freddie Mac, the government-owned mortgage finance companies. The profit came from interest payments, principal and rising prices for the securities, the department

said.

"The successful sale of these securities marks another important milestone in the wind-down of the government's emergency financial crisis response efforts," Mary Miller, assistant secretary for financial markets, said in a statement. "This program helped support the housing market during a critical moment for our nation's economy and delivered a substantial profit for taxpayers."

The Treasury Department bought \$225 billion in mortgage-backed securities in 2008 and 2009 as part of a wide-ranging effort to stabilize the housing and financial markets, an effort started by the Bush adminis-

tration and continued and amplified under President Barack Obama.

In March 2011, the Treasury Department announced that it would start to sell off what remained of its portfolio. To avoid disturbing the still-fragile housing finance market, it limited sales to \$10 billion a month and said it would discontinue the sell-off if any market disturbances occurred.

Thus far, Treasury's sale of its mortgage-backed securities portfolio has provided a lucrative return to the taxpayer. But it is only one piece of a broad and expensive effort to prevent the collapse of the financial system and housing market.

Flush with cash, Apple declares dividend and buyback

Apple announced Monday that it would at last return some of its cash pile to shareholders in the form of dividends and stock buybacks, at a cost of more than \$10 billion a year for the next three years. But it is attracting so much cash — \$1 billion a week in the last holiday season alone — that the move will not put a dent in Apple's coffers.

Apple's decision to pay the dividend was long awaited, yet it is an extraordinary one for a company that, despite its age, is growing more like a startup.

While paying dividends is often a sign of cash-rich companies that are running out of big growth opportunities to invest in, Apple, founded in 1976, has not yet reached that level of maturity. It continues to pump out huge new technology hits like the iPhone and iPad, and its sales in the recent holiday quarter grew 73 percent from the period in 2010, which itself was 70 percent higher than the holiday 2009 quarter.

Apple's cash reached nearly \$100 billion at the end of last year, a level that seemed increasingly unjustifiable to many investors, who fret about how little interest Apple earns on the money, estimated at less than 1 percent. Apple's cash figure is almost twice the cash balance of the company with the next biggest hoard, Microsoft.

Shares of Apple rose 2.65 percent, or \$15.53, to \$601.10 Monday.

—Nick Wingfield, *The New York Times*

BP settlement leaves some spill victims unhappy

Denise Spivacke Haralson and her husband, Larry, figured that they almost had their money. They had settled Haralson's claims against BP for the losses he suffered as a construction worker in the economic slump after the 2010 Gulf of Mexico oil spill.

With the settlement papers signed in November, they had been dealing with last bits of paperwork and had been waiting for a \$14,600 check.

That is when BP and the core group of plaintiffs in the case announced that they had reached an uncapped settlement that BP estimates at \$7.8 billion for individuals and businesses suing the company. The settlement involved shutting down the claims center that BP had set up at the request of the Obama administration. It is being replaced by another center that will be run under the court's supervision.

No one, the lawyers have emphasized, would have to accept less than the original offer, but that is little satisfaction for Haralson.

"Now they tell us we have to wait again?" she said, fuming. "We feel they've broken our contract."

The proposed settlement between BP and individual and business plaintiffs over the spill has not even been fleshed out yet, but there are already lawyers and clients complaining that they have been inconvenienced or cut out.

—John Schwartz, *The New York Times*

THE COUNCIL FOR THE ARTS AT MIT
SCHNITZER PRIZE



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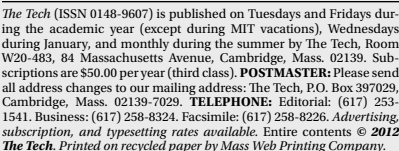
All currently registered MIT students are eligible to apply for this annual juried art competition.

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2012**

arts.mit.edu/awards-prizes/schnitzer/
For more info, contact cohen@media.mit.edu

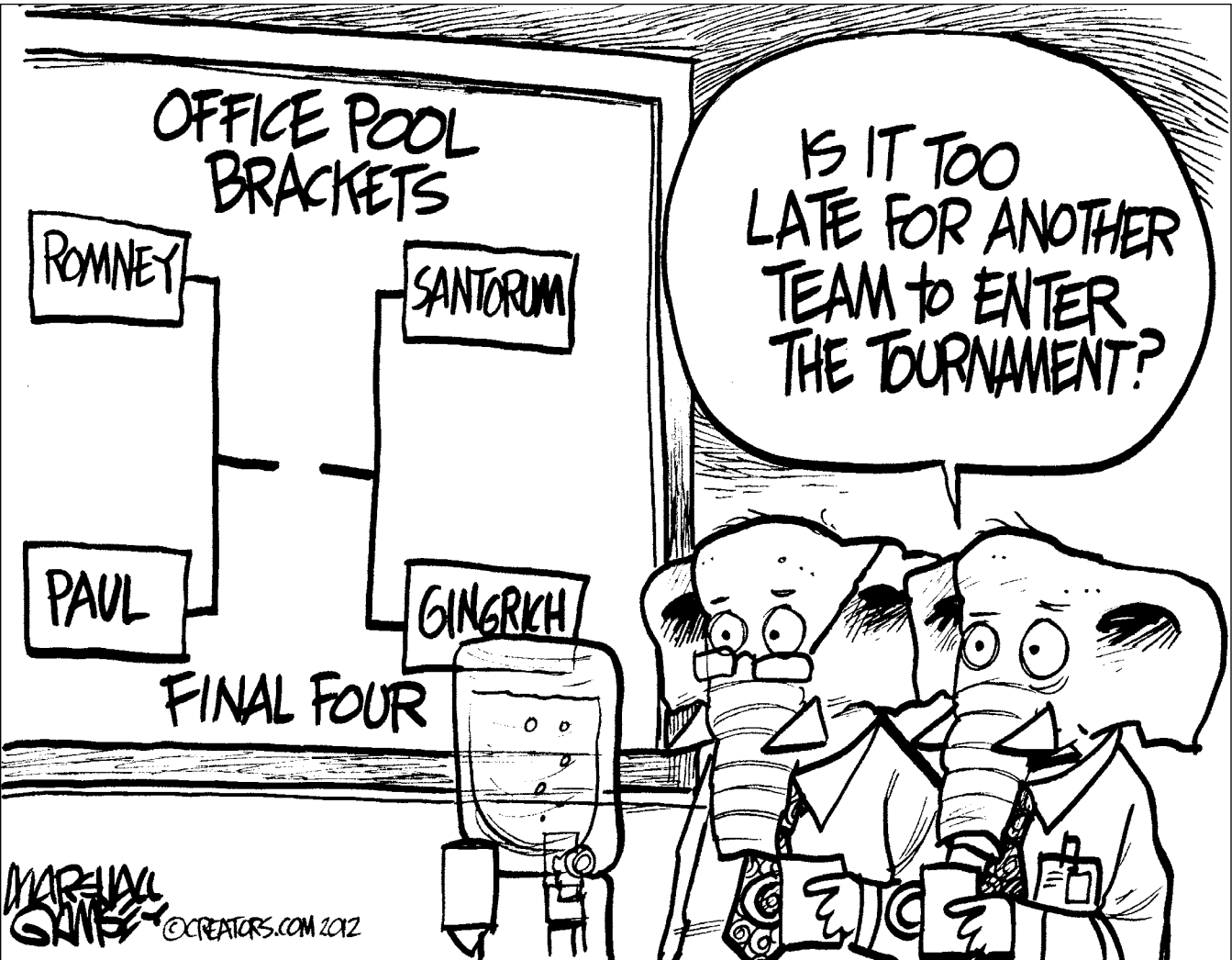


Photo: "Eight Steps", project by 2011 Third Prize Winner, Hannah Perner-Wilson
MIT Media Lab Grad Student



We, your student task force, want to hear your opinions. Feedback from a large sample of the student population is imperative to create a report that accurately reflects the thoughts of the student body. This report will be used by the Presidential

Tuesday	3/20	noon	3-442
Tuesday	3/20	5:30pm	E51-376
Thursday	3/22	7:30pm	Lobdell



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Saturday Stumper

by Byron Walden

Solution, page 12

ACROSS

- 1 Suit icons
- 5 One who cuts and runs?
- 15 About
- 16 Source of local information
- 17 Source of William the Conqueror's Tower of London stone
- 18 Intel's home
- 19 Literary lion
- 21 Alternate nickname for Sporty Spice
- 22 __ time
- 23 School district's examination
- 25 To whom "bullets" are beans
- 26 Checkout procedure
- 27 Pulp fiction hero
- 28 Mt. Bachelor's home
- 29 Port near the Red Sea
- 30 Common Hanoi transportation
- 31 Had too much
- 32 Iniquity

- 33 They take their toll
- 36 Lean
- 37 Frat letter
- 40 Martin Sheen's real first name
- 41 Subject of a 2011 biography by Shimon Peres
- 43 Square
- 44 Comic clothing of yore
- 45 Iolanthe, per Gilbert and Sullivan
- 46 Play to __
- 47 Walleye prey
- 48 Postgame display site
- 51 Opposite of ennemie
- 52 Brainy?
- 53 Two Years Before the Mast author
- 54 Completely straight
- 55 Heeded a 5 Across

DOWN

- 1 "Give me a museum and I'll fill it" speaker
- 2 Far from copacetic

- 3 Service leader
- 4 Diet cousin
- 5 Clear off, in a way
- 6 Stony
- 7 Used the good china, say
- 8 Brightened up
- 9 Add to the books
- 10 Special handling
- 11 Feel ambivalent, in a way
- 12 Source of iridescent buttons
- 13 Cellar dwellers' lament
- 14 Submarine dive alarms
- 20 Andre Agassi, e.g.
- 24 Pool for a pol
- 27 Botches, in Britain
- 30 Scroogelike
- 31 Cleaned without chlorine
- 32 Blade Runner composer
- 33 Scrubbed up, perhaps
- 34 Eldest of the Andrews Sisters
- 35 Aretha sang it at Obama's inauguration
- 36 Easy on the eyes?
- 37 "We Are Your Movie

1	2	3	4		5	6	7	8	9	10	11	12	13	14
15					16									
17					18									
19				20		21					22			
23					24						25			
26										27				
28				29					30					
			31					32						
33	34	35				36					37	38	39	
40						41					42			
43						44								
45						46				47				
48				49					50		51			
52											53			
54											55			

- Channel" sloganeer
- 38 Emergency fixture
- 39 Rather
- 41 Battleground of 1942

- 42 Sister brand of Days
- 44 It means "depth"
- 49 Bk. before Philippians
- 50 End- opposite

Sudoku

Solution, page 12

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

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 12

15x				288x		
3		5		8x	12x	
4x	360x					
	12x			225x		
12x		4		2-	1	
	2-				5	

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.

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Go ahead, cross the line

Plyometric workouts give cardio and strength training

By Allison Hamilos
STAFF WRITER

Looking for a full-body workout to do at home? Plyometric circuits offer intense combinations of cardio and strength training and can be done in 10–15 minutes every day. So the next time you’re looking for a change of pace at the gym or a tough at-home workout, consider incorporating some or all of the drills in this circuit.

Why Plyometrics?

Athletes incorporate plyometrics into their weekly routines for several reasons. Like core exercises, they promote total body stability and strength. These versatile drills build fast-twitch muscle fibers, which improve quickness, ability to change direc-

tions rapidly, and coordination. Even better, they can be customized for a sport-specific workout that will improve your fitness both on and off the field.

The Circuit

This circuit will be as challenging as you make it, so start small and try to work up to doing the exercises faster, for longer stretches of time before stopping, and/or with shorter rest intervals. The duration and rest periods given are only suggestions, and can be modified to suit your purposes. You should go at a speed where you feel challenged, but never lightheaded or dizzy, and certainly never in pain. It should be fun!

Safety Tips

When doing these exercises, make sure

you are in control. No flailing! When doing the moves, you should try to execute them as quickly as possible while maintaining good form. You should look as dignified as possible. If you become too exhausted to do the move correctly, take a minute to rest and try again. If you are still too tired, stop for the day. It’s better to try again when you are feeling fresh.

Be sure to wear athletic shoes when doing these exercises (running, cross-training, indoor, tennis – no flip-flops!). You can do permanent damage to your feet and joints by jumping around barefoot on hard surfaces – yes, even carpet.

Especially important note: when jumping/hopping/stepping, be sure to land softly. This means your footsteps/landings should be very quiet — the whole gym should not be able to hear you! The point of this is to protect your joints. By slamming your feet into the ground, you are not only jarring your knees, ankles, and spine, you are also landing with hyper-extended knees. The dangers of landing

this way range from pulled muscles and tendons to torn or damaged soft tissues in your knee joints, among other things. So don’t do it!

To land more quietly, you should try to “give” with your knees as you land. Think of your lower body as a spring. When you land, you should have your weight on the balls of your feet (never heels!) and allow your knees to bend to absorb the impact. If you’re unsure of what this looks like, ask an athletic friend to demonstrate the difference. Once you get the hang of it, you won’t have to worry about it.

As always, a good workout will make your muscles feel sore afterward, but it should never be *painful*. So if something hurts, stop immediately and consult one of the athletic trainers at the Z-Center.

This cycle can be repeated as many times as you like during a single workout. You can build up to the full circuit by trying each of the moves for a short burst of time (10–15 seconds). Questions? Email me at freshstart@tech.mit.edu for clarification!



2-Foot Bunny Hop

(Duration: 30s, Rest: 45s)

Choose a line on the ground. Standing with feet together, hop rapidly forward and backward over the line. For best results, try to spend the minimum amount of time with your feet touching the floor. Maximize speed, not height.



2-Foot Side Hops

(Duration: 30s, Rest: 45s)

With feet together, hop side to side as quickly as possible over the line. Try to minimize the amount of time with your feet on the ground. Maximize speed, not height.



Front/Back Scissor Hops

(Duration: 30s, Rest: 45s)

Stand with one foot in front of the line and one foot behind the line. Rapidly switch positions of your feet relative to the line. Maximize speed.



Chacha Steps

(Duration: 30s, Rest: 45s)

Start with both feet behind the line. Step over with your right foot, then your left. Then, step back with your right foot, then your left. Repeat as fast as possible. Maximize Speed.



These are just a small subset of the possible plyometrics you can try at home. We won’t cover agility ladder drills here, since they are workouts themselves. If you’re interested in a more challenging and/or sport-specific plyo workout, Google “agility ladder drills” for some ideas. For even more inspiration, ask a DAPER PE instructor or athletic trainer for some ideas, or check out YouTube for instructional videos.

Tuck Jumps

(Duration: 30s, Rest: 75s)

Jump up and tuck your knees to your chest. Spend as little time on the ground as possible (i.e., start the next jump as soon as you land).

Lunge Jumps

(Duration: 30s, Rest: 75s)

Start in lunge position (right foot forward). Don’t let your front knee extend past your toe! Jump up as high as you can and land in the opposite lunge position (left foot forward). Repeat. Aim for both height and speed.



Domino

(Duration: 30s, Rest: 45s)

Imagine you are standing on the “five” of a die or domino. Start with each foot shoulder width apart on the two “bottom” dots. Hop forward and bring feet together to land on the “middle” dot. Hop forward again and land shoulder width apart on the two “top” dots. Hop backwards again to the “middle” dot and then back to the “bottom” dots. Repeat. Aim for quickness.



Lateral Cone Hop

(Duration: 20s, Rest: 45s)

Imagine you have a 1ft cone on the ground. Stand with both feet together to the side of the cone. Jump sideways over the imaginary cone, tucking your knees up toward your chest. Land softly and jump back to the starting position. Aim for height and minimize time on the ground.



Disclaimer: I may be a premed, but I’m not a doctor yet! The ideas in this article come from workouts learned from the coaches of the MIT Women’s Varsity Lacrosse team. Be sure to check with your doctor before embarking on a new fitness regimen and to ask for help from a trainer or coach if you are unsure about how to perform any of the moves described. Form is critical. Be healthy, train healthy!

PHOTOS BY EDUARDO SVERDLIN-LISKER
PHOTOILLUSTRATION BY JESSICA L. WASS —THE TECH

EVENTS MAR. 20 – MAR. 24 TUESDAY

(12:00 p.m. – 1:30 p.m.) MIT President Search: Student Forum — 3-442
(7:00 p.m. – 10:00 p.m.) MISTI and Amnesty International present a Film Screening: *Khodorkovskys* — 10-250

THURSDAY

(12:30 p.m. – 1:30 p.m.) Energy 101 : The UN Framework for Climate Change, lectures aimed at providing basic understanding on various topics in the energy field — 66-144

FRIDAY

(2:30 p.m. – 4:30 p.m.) Earthsickness: Circumnavigation and the Origins of Planetary Consciousness — E51-095
(5:00 p.m. – 6:00 p.m.) Emerson Scholar Student Recital: Sherman Jia and Vincent Cheung — Killian Hall (14W-111)

MONDAY

(12:00 p.m. – 1:00 p.m.) Buoyancy Waves, Density Currents, and Their Possible Roles in Intensifying Continental Convection — 54-915
(4:00 p.m. – 5:00 p.m.) An Update from ATLAS: Recent Results and the Road Ahead — 26-414 (Kolker Room)

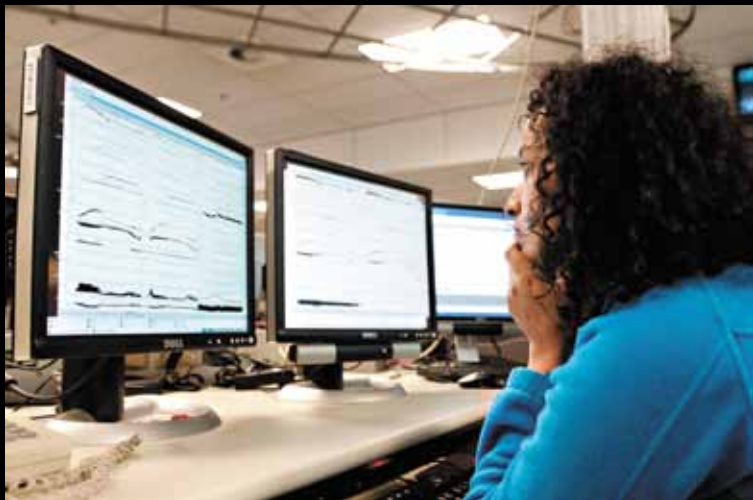
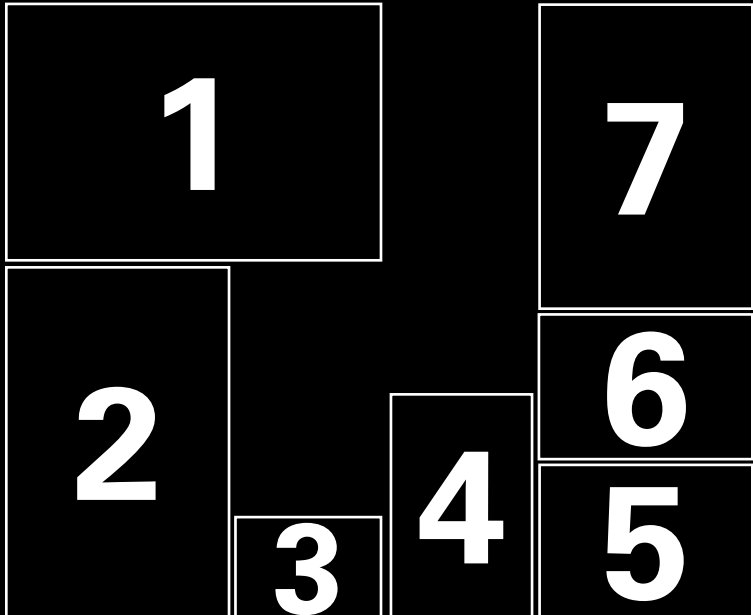
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- PHOTOS BY CHRISTOPHER A. MAYNOR—THE TECH
1. Several of the scientists and engineers who help operate Alcator C-Mod pose for a photograph in the main control room.
 2. This coaxial cable carries several megawatts of radio frequency power into the tokamak to heat the plasma inside at the ion-cyclotron resonance frequency.
 3. Roza Tesfaye, the power electronics engineer at Alcator, works at her station in the control room.
 4. Wiring for the massive alternator, housed in an adjoining building, which provides power to the tokamak during experiments. The alternator, which was donated to the laboratory by Con Edison in 1978 is hooked up to a 75 ton flywheel and provides a peak power of more than 100 megawatts during experiments.
 5. The tokamak's lower current hybrid drive, which supplements the main current with over a megawatt of microwave power, sits behind a safety fence.
 6. Rows of computer monitors and a massive screen on the rear wall in the control room display crucial data about the tokamak system and its various instruments during experiments.
 7. A cramped port that grants access into the innards of the tokamak for repairs and routine maintenance glows brightly.



Alcator C-Mod's DOE funding at risk

MIT's nuclear fusion research and education face federal budget cuts

Alcator, from Page 1

reactor currently under construction in France. ITER is an international collaboration expected to begin operating in 2019 and designed to be the first fusion reactor to have a net positive energy output.

The proposed unexpected cuts to Alcator C-Mod have been met with criticism from MIT plasma science faculty as well as others in the field. According to Earl Marmar, the current head of the Alcator C-Mod project, plasma research at MIT is highly relevant to ITER. Massive gas mitigation, tokamak wall materials, and tritium retention are among some of the research topics being studied at MIT, which will be important for the ITER facility. Marmar foresees significant problems for all U.S. plasma facilities if domestic cuts are used to pay for contributions to ITER.

"Over the next few years of construction, the U.S. contribution to ITER will be as much as \$300 million in peak years," said Marmar. "The current total U.S. budget for fusion energy sciences is \$400 million per year, so domestic research will be left with almost nothing."

Without domestic programs, he says, there will be a large gap in research until ITER can begin doing serious science in the 2020s, and even then there will be areas of fusion physics it will be unable to test.

Ian Hutchinson, Professor of Nuclear Science and Engineering and head of Alcator C-Mod for its construction and first ten years of operation, agrees that it does not make sense for the U.S. to fund an international program by closing down domestic programs.

"What our international partners are doing at the moment is not shrinking," said Hutchinson. "They're actually expanding their domestic programs because they want to get strongly into fusion research and be in a position to benefit from their involvement in ITER."

According to Hutchinson, there is already five years' worth of high priority research for Alcator C-Mod lined up. The current research is "influencing decisions that have and will be made on ITER," he said, and the \$24 million per year saved by closing MIT's tokamak would only go a short way toward paying for the United States' ITER contribution.

Perhaps the most serious issue, said Hutchinson and Marmar, is the effect on the education of U.S. plasma students. At MIT, the Alcator C-Mod supports 100 staff members, and there

are currently thirty PhD students whose theses depend on the tokamak's results. Marmar expects only slightly more than a third to be able to finish their degrees if the facility is closed at the end of the 2012 fiscal year. Students who are not close to done with their project will likely have a hard time finding funding elsewhere to complete their degrees. According to *Science*, the cuts would also affect the two other tokamaks also currently supported by the Department of Defense (DOE). Additionally, the cuts would cause Princeton University's Plasma Physics Laboratory (PPPL) to "lay off about 100 of 435 staff," PPPL Director Stewart Prager told *Science*.

MIT's facility is "by far the most important of the three major U.S. plasma facilities for educating graduates," he said. Losing it would ultimately hurt the U.S.'s involvement in ITER.

Hutchinson suggests the negative impact on education could be long-term as well.

"If we close down the domestic program in order to make our contribution to ITER, the U.S. will have no one left to participate in ITER when it is constructed, and our contribution will in the end be futile," said Hutchinson. "We will be cutting off the education of future plasma experts."

Dan Brunner G is feeling the immediate impact of the proposed funding cuts. He expects to finish his data collection in time even if the facility is shut down, but says, "It will be close. I have to get my data this summer, so I can't take any breaks."

Even with a degree, however, Brunner expects the funding to present a challenge.

"If the U.S. fusion budget keeps on this path, I won't have job opportunities in the U.S. If the U.S. is serious about fusion, we need to fund domestic research and ITER because they depend on each other." MIT graduate students in fusion have actively campaigned against the cuts, beginning *fusionfuture.org* to outline their position.

Marmar says that contingency plans have been created for the closure of the facility if the cuts are enacted in the 2013 budget, but says he "remains optimistic" that the shutdown can be avoided.

Marmar, Hutchinson, and Brunner said that nearly everyone in the nuclear science and engineering field is opposed to the cuts, but finding funding support has been difficult. Deval Patrick and John Kerry have visited the MIT facilities in the past week to show their support, and hope to get more politicians onboard soon.



Professors honored for undergraduate teaching

William Broadhead, Leslie P. Kaelbling, David Kaiser, and Nancy L. Rose are fellows



PHOTO COURTESY OF DOMINICK REUTER, MIT NEWS OFFICE
Associate Professor of History William Broadhead



JESSICA LIU—THE TECH
Professor of Computer Science Leslie Pack Kaelbling

MacVicar, from Page 1

According to Broadhead, who teaches Greek and Roman history in the School of Humanities, Arts, and Social Sciences, undergraduate teaching is an opportunity to introduce students to “material that they might not have expected to encounter.” Each year over IAP, Broadhead takes 10 to 15 students to Rome, an experience that he believes “wakes up” the students to the world around them.

Kaelbling sees undergraduate teaching as optimizing clarity and simplicity.

Broadhead enjoys teaching MIT students for their intelligence, curiosity, and humility. “This uniquely MIT combination of qualities ... makes them fun and easy to teach, it makes them much more enthusiastic about working on this material with me than I could possibly have hoped they would be, and it means that often they push me in directions that I hadn’t thought of before,” said Broadhead. “I get a lot of questions from MIT undergraduates that you would not expect to get from a more conventional student of ancient history at a liberal arts college.”

Rose, who teaches 14.20 (Industrial Organization and Competitive Strategy), also finds the approach to teaching MIT students a unique experience.

“They’re very curious about the world and very eager to try and take what they’re learning and apply it,” said Rose. “One of the really fabulous things about teaching at MIT is that I have the opportunity to do things in my class sometimes that I can’t imagine I would get to do at a lot of other places.”

In the spring of 2000, Rose managed to bring in as a guest lecturer Andreas Antonius Gonzalez — the chief of staff for Mexico’s then-Secretary of Energy Luis Tellez — who had taken part in reorganizing the Organization of the Petroleum Exporting Countries (OPEC). They had discussed this topic extensively throughout the term as an

example of collusion in cartels.

“We’d been sitting here during the semester taking about this, and then [Gonzalez] shows up in the middle of my class and gives a 20-minute speech that basically says, ‘Well here’s how we were thinking about it,’ and starts citing the economic models that I’d been teaching the class,” said Rose. “And then, at the end of his presentation, we opened it up and the students got to ask him all kinds of questions. It was one of these moments when you just think, ‘It doesn’t get better than this.’”

Kaelbling, one of the first developers of the introductory computer science course 6.01, sees undergraduate teaching as a “design problem,” optimizing clarity and simplicity while encouraging students to think critically and autonomously.

“I really want to figure out how to get students to be enthusiastic about and engaged in the questions and ultimately to ask the questions themselves,” said Kaelbling. “The reason that we have lab the way we have it is so that we can ask somewhat more open-ended things of the students and so that we can put more of the intellectual burden on them.”

Rose finds the approach to teaching MIT students a unique experience.

MIT’s unique culture has also shaped the way that Kaiser approaches undergraduate teaching.

“One of the things that I really love about being at a place like MIT is that every student here can do anything,” said Kaiser. “They’re incredible.”

Kaiser’s “quintessential MIT moment,” as he called it, came in September 2000, when he was giving a lecture on medieval Arabic astronomy. As he lectured about a medieval theory on uniform circular motion of planets, one of his students wrote a few lines of code on an archaic handheld device and managed to model and explain the theory.

“That was when I knew I was at MIT,” said Kaiser.



PHOTO BY DONNA COVENEY COURTESY OF DAVID KAISER
Associate Professor of Science, Technology, and Society and Senior Lecturer of Physics David Kaiser



PHOTO COURTESY OF NANCY ROSE
Professor of Economics Nancy Lin Rose PhD ’85



TAMI M. FORRESTER
Emily R. Su ’12 performs “Variations on a Shaker Melody” at the MIT Wind Ensemble concert last Saturday evening, March 17.



TAMI M. FORRESTER
Meryem T. Ok ’15 (center) plays “Variations on a Hungarian Folksong.” The MIT Symphony Orchestra performed this piece as well as others at their concert last Friday evening, March 16.

Biogen Idec returns

Firm will move back to Kendall

Biogen, from Page 1

Cambridge Center in and sought a new place to accommodate the workforce.

The decision to move to Weston was made in 2008 by former CEO James C. Mullen, who thought it would offer more space and convenience for workers and save money on lower lease rates at the same time. But the current CEO George A. Scangos, who took over in the summer of 2010 a month after the company moved to Weston, instantly disliked the geographical separation between sales and marketing in Weston and R&D facilities that remained in Cambridge.

“It wouldn’t have been my choice,” he told the *Boston Globe*. “Today, I’m the only member of senior management who’s here [in Cambridge]. Everyone else is in Weston. That’s not optimal.” He said it was more sensible to have everyone in one location and finally decided to return to Kendall Square last summer.

Although Sharp left the board

of directors several years ago, he commented, “Weston was too far away from Kendall Square,” in an email to *The Tech*. “I totally agree with this and welcome them back to Cambridge. Biogen Idec is a high-tech company and must be in touch with the cutting edge of biotech.”

Biogen Idec will fully join the growing biotech industry near the Kendall Square area when construction is scheduled to be complete in 2013. Currently, the area is populated by pharmaceutical giants such as Novartis, Pfizer, Sanofi, and Amgen. .

In an email to *The Tech*, Kirk D. Kolenbrander, Vice President and Secretary of the MIT Corporation, noted that the “expanding innovation district in Kendall Square was a principle factor in the decision making process” for the company. Although “MIT did not have any direct involvement” in Biogen Idec’s return to Cambridge, he said, “MIT is delighted to have the company reassemble in Kendall Square.”

Forum discusses USPS future

The US postal service in the technological climate

By Rob McQueen
CONTRIBUTING EDITOR

USPS Inspector General David C. Williams came to MIT last Thursday to discuss the future of the United States Postal Service as part of MIT’s Communication Forum. The talk touched upon important issues that the Postal Service must face in order to survive the current economic climate.

With the Postal Service on the verge of cutting 200,000 jobs, Williams is on the lookout for solutions that could help the USPS adapt to today’s technological environment. “We are losing billions of dollars and have been losing billions of dollars,” he said.

The talk’s panel also included Richard J. John, Professor in Columbia University’s School of Journalism, and Kent B. Smith, manager of strategic business planning for the USPS.

This is not the first time the USPS has found itself in trouble as a result of new technology.

All three panelists agreed that the USPS plays an important role by upholding the civic mandate that preserves security, privacy, and confidence in message delivery. Such Internet technologies, like email and text messaging, fail to provide the security that American citizens need from their government. John, who gave a historical lesson at the talk about the emergence of the postal service, described the USPS as a “reser-

voir of goodwill that resides in the mandate.”

However, at the pace that technology is advancing, it is hard to predict and keep up with future technologies. “Laptops and email became so five nanoseconds ago,”

However, today’s situation is more complex. The blending of social media with smartphone devices has created a microcosm with which the USPS has not been able to integrate.

The USPS has grown immense

One primary goal for the USPS is to consolidate and simplify its services. Since 2006, the USPS has reduced the number of major mail processing facilities from 673 to 487, with a goal of keeping only 200.

joked Williams.

As a consequence of the rapid development, security and privacy have taken a back seat when it comes to messaging (i.e. email and social media). “Net neutrality should be decided by the public,” Williams said.

Smith believes that the USPS can succeed by creating tools that integrate with current technologies and keep the civic mandate to uphold privacy and security. “We’re just begging to see the marriage; where the Internet is connected to mail ... that will determine the future,” he said.

With the emergence of new communication media like social media and email, time and space have disappeared as limiting boundaries to messaging. “We don’t know a lot of things that are currently going on. Is email killing mail? Is tweeting and blogging killing email?” said Williams.

This is not the first time the USPS has found itself in trouble as result of new technology. The USPS has had a history of adapting to the environment as result of emergent technologies including the telegraph, telephone, and fax.

in size. In 2010, the USPS generated a revenue of \$67 billion, delivered 171 billion pieces of mail delivered, and employed 574,000 workers. “The Postal Service is a beast,” said Smith.

According to Smith, one primary goal for the USPS is to consolidate and simplify its services. Since 2006, the USPS has reduced the number of major mail processing facilities from 673 to 487, with a goal of keeping only 200. The number of employees has also decreased from 696,000 to 574,000 and will continue to decline in the coming year.

Williams agrees, saying that the number of post offices should be reduced, and that these consolidated numbers should be located in “the right places to meet supply and demand.”

According to Smith, the USPS will delay the closing of some offices in preparation for the upcoming primaries and presidential election.

Shiva Ayyadurai ’87 — MIT lecturer in Writing and Humanistic Studies and the Department of Biological Engineering — moderated the talk.

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Next year may we all be free!



Google expansion approved

Revised plan: more park space for less garden space

By Michael B. Farrell
THE BOSTON GLOBE

Cambridge City Council voted Monday night to approve a plan for Google Inc. to increase its Kendall Square office in an expansion that would halve a public rooftop garden.

The proposal sparked an outcry late last month when it was presented to the City Council by Boston Properties Inc., Google's landlord, after some councillors and residents said they were surprised by losses to the park, which sits atop a Kendall Square parking garage and is protected by an open-space covenant.

Boston Properties returned to the City Council Monday with a slightly revised proposal that includes bumping up the amount of new park space the developer will construct in exchange for reducing the garden and pledging \$2 million to design and construct that green space.

"This is a step in a process," said Steve Vinter, head of Google's Cambridge office, after the council's 7-to-2 vote in favor of the plan. "Growing is a thing that takes time, and we are really appreciative of the work done by the community and the council."

During the public comment session of the meeting, he said, "What this has really been about is about how to make Kendall Square more vibrant, and that should really be what we are discussing."

Vinter said previously that Google needs to expand in Cambridge to accommodate a growing workforce. Last night, he said Google's local head count was about 800, growing from 40 people just five years ago. The search engine giant acquired ITA Software Inc., another Kendall Square tech company with about 500 employees, in 2010 for \$700 million.

The expansion will allow Google to spread out across 300,000 square feet of office space.

The expansion plan includes the construction of two glass-wall connectors that will link Four, Five, and Three Cambridge Center. Boston Properties said construction should begin later this year with an expected completion date of mid-2013. The expansion will add about 40,000 square feet between the buildings, and allow Google to spread out across 300,000 square feet of office space.

The outcry was focused largely on the connector between Four and Five Cambridge Center because it sits on top of a parking garage and will lop off 18,000 square feet from the rooftop garden, which dates back to 1983. Boston Properties needed council approval to build on top of the public park.

"It is an oasis, an Eden, a mar-

vel, something that Boston Properties should be incredibly proud of because of the stellar job they did and do creating and maintaining it. Destroying it should be the last thing on their minds," said Heather Hoffman, a Cambridge resident and member of the East Cambridge Planning Team, who spoke out against the expansion.

The East Cambridge group, which met with Boston Properties and Google officials last week to discuss the proposal, originally voted against supporting it in its current form, and instead offered an alternative plan. It suggested that Boston Properties attempt to extend the rooftop garden onto an adjacent building instead of developing another ground-level park nearby.

Boston Properties said it explored that proposal but it is not structurally feasible.

But on Monday night the East Cambridge group said its board members opted to back the revised plan, which Boston Properties submitted to the City of Cambridge last Friday.

Charles Marquardt, a member of the East Cambridge Planning Team's executive board, said his group would still like to see more of a commitment from Boston Properties to build residential units in the neighborhood in the near future. As part of the revised plan, which adds 50,000 square feet of open space to Cambridge,

Google, Page 13

Amsden dies at 68

Teacher, scholar, & consultant

Amsden, from Page 1

known books was *The Rise of 'The Rest': Challenges to the West from Late-Industrializing Economies*, published by Oxford University Press in 2001. In it, she examined the way Asian countries such as South Korea and Taiwan had helped produce growth through state-promoted industrialization. By contrast, Amsden observed, some Latin American countries had accommodated a greater degree of overseas investment, leaving more economic decisions in the hands of multinational firms, not state actors.

Amsden was a co-winner of the 2002 Leontief Prize, along with Harvard University's Dani Rodrik, an annual award granted by Tufts University in recognition of important "contributions to economic theory that ... support just and sustainable societies." The prize is named for the prominent late economist Wassily Leontief.

In her acceptance remarks for the Leontief Prize, Amsden stressed the importance of the close study of developing countries, because "there are a lot of people out there that are disappointed and that desperately want improved living conditions and social standards."

Amsden was born in New York City, and she received her undergraduate degree from Cornell University in 1965 and her PhD from the London School of Economics in 1971. She began her career as an economist at the Organisation for Economic Co-operation and Development (OECD), and before

joining MIT in 1994, taught at the University of California at Los Angeles, Barnard College, Harvard Business School, and The New School. At MIT, she held the Ellen Swallow Richards Institute Chair from 1994 until 1999, when she was named the Weller Professor.

Beyond her teaching and scholarship, Amsden served as a consultant to the OECD, the World Bank, and multiple programs within the United Nations. In 2009, she was appointed by U.N. Secretary General Ban Ki-moon to a three-year seat on the U.N. Committee on Development Policy, part of the U.N. Economic and Social Council; the committee provides advice to the council on a wide range of economic development issues.

Amsden is survived by her sister and brother-in-law, Myra Strober and Jay Jackman of Stanford, Calif.; nephew Jason Strober, his wife, Joanna Strober, and their children, Sarah, Jared and Ari, of Los Altos Hills, Calif.; niece Elizabeth Strober, her husband, Bryan Cohen, and their son, Leo Strober Cohen, of Seattle; nephew Rashi Jackman, his wife Maike Ahrends, and their son, Jasper Ahrends; nephew Jason Scott and his wife Lena Chu; and niece Tenaya Jackman. Amsden was previously married to John Amsden and to Takhashi Hikino.

NOTE: A memorial service will be planned at MIT at a later time. More details will be posted as they become available.

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Solution to "Stumper"

from page 5

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

Solution to Techdoku

from page 7

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

Solution to Sudoku

from page 7

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

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Google, from Page 12

Boston Properties said it would present plans for about 180 residential units after the additions to Google are completed.

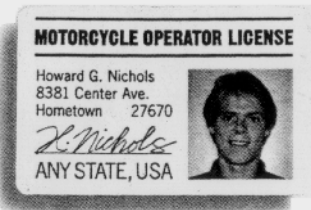
Councillor Minka vanBeuzekom, who voted against the expansion along with Councillor Craig Kelley, agreed that the city should have a stronger commitment from Boston Properties that it would pursue residential development. “It doesn’t sound like a good deal to me,” she said.

Despite the two opposing voices on the council, the overwhelming majority appeared eager to see

Google expand in Kendall Square. “We value companies like Google in this community,” said Councillor David Maher. “We live in a very competitive economic development world right now — competitive around the country, but also competitive around the area. All of us saw how very quickly Boston was ready to pounce at the opportunity to court one of our companies.”

After the Google expansion plan was delayed last month in Cambridge, Boston Mayor Thomas M. Menino invited Google to consider moving across the Charles River.

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The following student Coop members have been nominated by the Stockholders as candidates for the Board of Directors for the 2012-2013 academic year.

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Paige Finklestein, 2014
Emma Kane, 2015

MIT Graduate Students:
Ellie Bertani, MBA, Sloan/MPA, HKS, 2013
Samuel Shaner, PhD, 2015

Harvard Undergraduate Students:
Cody Dean, 2014
Hilary Higgins, 2015
Joshua Zhang, 2014

Harvard Graduate Students:
Christina Adams, MBA, 2013
Oliver Hauser, PhD, 2015
Mathew Morgan, MPP, 2013
May Lam, MBS, 2013
Allison Trzop, JD, 2013

Any student Coop member may petition to be a candidate on the election ballot. A Petition application is available online at www.thecoop.com.

The Petition period is March 14 to April 1, 2012. For complete Petition rules consult the information posted in the election section on the Coop website at: www.thecoop.com.



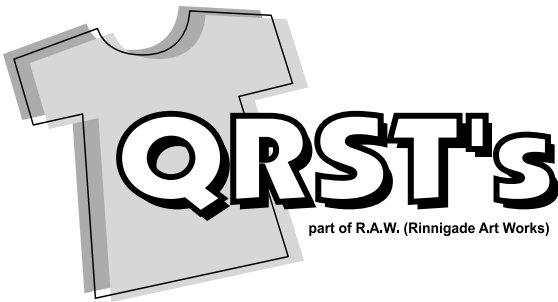
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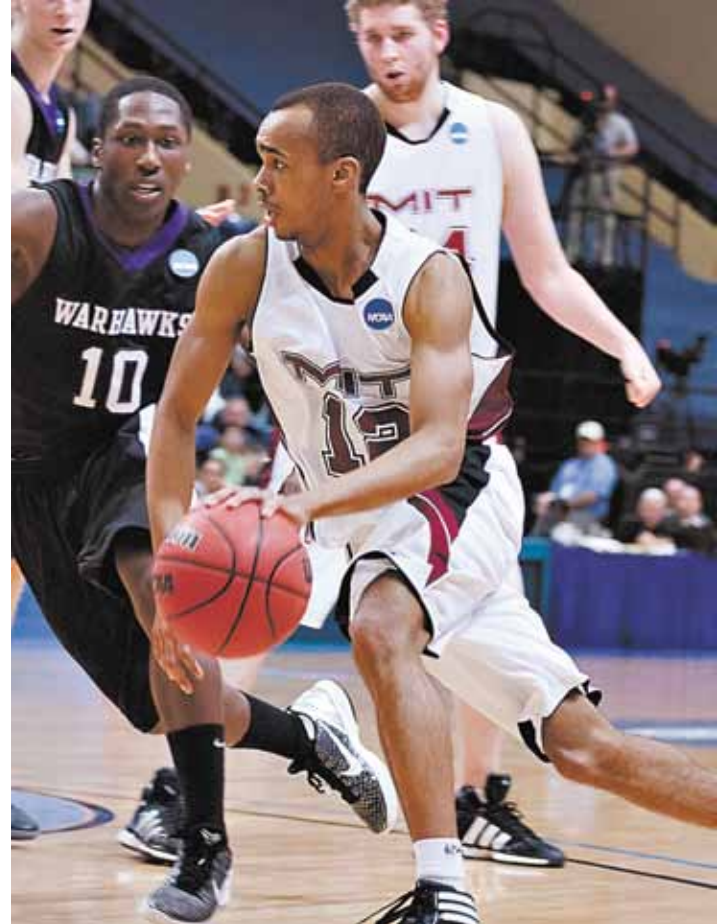
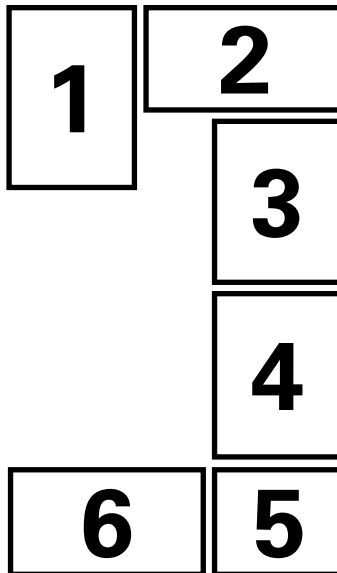


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As coach Paul Grant said, “The word is getting out. It’s going to take a while, but anyone who has been in and around this program for the past five years knows that this is a program on a meteoric rise [that] shows no sign of waning.” MIT is on the radar and on the move; the team’s performance this year warranted its first entrance into the Final Four — looking ahead, it doesn’t look like it will be the team’s last visit to nationals.