



WEATHER, p. 2

FRI: 47°F | 37°F
Cloudy with showers

SAT: 46°F | 25°F
Sunny and breezy

SUN: 30°F | 20°F
Cold and windy



Senior House is one of two dorms that is piloting MIT's gender-inclusive housing program. There are plans to expand beyond Senior House and Random Hall this coming Spring.

JEREMY E. DEGUZMAN

Gender-inclusive policies expanding

Collaborative efforts on campus-wide policy to begin in the Spring

By Alexandra Delmore
STAFF REPORTER

MIT Residential Life & Dining is planning to initiate gender-inclusive housing policies across campus, expanding upon the implementation of such a policy in Random Hall and Senior House. Students opting for gender-inclusive housing would be able to room with people of different genders and gender identities, which would be ideal for students who have preferences about the gender identities of their roommates.

Prior to the introduction of gender-inclusive housing in Senior and Random, MIT was among the few private institutions that

did not offer this housing option. Though specific policies vary among institutions, all Ivy League schools as well as Stanford have gender-inclusive housing options for upperclassmen; Cornell, Dartmouth, Harvard, and University of Pennsylvania have gender-inclusive housing available for freshmen as well. Most schools prohibit romantic couples from taking advantage of gender-inclusive housing, while Brown, Columbia, UPenn, and Yale don't ask questions, though it is generally discouraged. Most institutions require students opting for gender-inclusive housing to choose their

Housing, Page 10

Task force releases new report on MIT education

Future of MIT's academics, edX, & finances

By Anthony Yu
STAFF REPORTER

In an email to the MIT community yesterday, President L. Rafael Reif released the preliminary report of the Institute-wide Task Force on the Future of MIT Education. Last February, Reif charged the Task Force to explore "bold" possibilities of the future of MIT education both on campus and for those around the world, in addition to evaluating MIT's financial model and pricing structures. The work was split among three working groups, focused on the future of the MIT education and facilities, the global implications of edX, and a new financial model for education.

The future MIT graduate

The future MIT graduate needs good communication skills, the report emphasized. In particular, it cited that MIT students' communication skills lag behind those of their peers. The task force suggests that, in addition to encouraging smaller class sizes, MIT should motivate faculty to engage with students outside of their field of expertise. Additionally, building on the success of UROP (Undergraduate Research Opportunities Program), piloting an Undergraduate Teaching Opportunities Program and Undergraduate Service Opportunities Program would further enhance the communication skills of future MIT students.

More flexibility

The task force also considered the possibility of a more flexible curriculum. "Now really seem to be a time for us to think about introducing flexibility into education," said Karen E. Willcox PhD '00, a co-chair of the task force and a professor and associate department head in the Department of Aeronautics and Astronautics. Currently, some ideas under suggestion include expanding SB/MEng programs, offering credit for taking MITx classes, and more modularity with the GIRs. However, that flexibility must be dealt with carefully: "The challenge is how do we put a structure in place

Education, Page 11

Sparse attendance plagues faculty meetings

In a first for this semester, the November faculty meeting reached quorum on Wednesday when more than 30 faculty members showed up. MIT has about 1,000 faculty members.

A third of the way through the meeting in 32-123, as professors finished trickling in, President L. Rafael Reif asked professor Steven R. Hall '80, the faculty chair, for a recount. Spotting 32 raised hands, Hall gave the green light for the gathered body to approve meeting minutes from May, September, and October.

At the meeting in October, Professor Susan S. Silbey, the faculty secretary, had given a presentation on various ideas for using electronic voting to improve participation.

"If this were my class, I would ask you to come closer," Silbey told those seated farther back in the room at the beginning of her presentation.

Wednesday's turnout did not allay worries that something was amiss with faculty governance. Professor Diana Henderson, a former faculty officer, said that the issues today were as important as those discussed in what she recalled

as times of livelier faculty participation.

What drew in those who showed up on Wednesday, Henderson said, was a proposal to establish a new campus planning committee, which proponents said would give faculty a voice in campus planning projects. The proposal comes in the midst of the design phase of a major redevelopment of the eastern part of campus near the Kendall T stop.

After the presentation of that proposal, the faculty heard the preliminary findings of the Task Force on the Future of MIT Education, charged with answering a sweeping set of questions about online learning, MIT's financial model, and innovation in education.

The faculty at the meeting also unanimously approved a motion from September to allow people outside MIT to bring complaints of student misconduct to the Committee on Discipline.

Though important changes require a vote at a faculty meeting, Silbey said earlier this month that the issues MIT faces are really figured out in committees.

Meeting, Page 11

IN SHORT

- The deadline to apply for the MIT \$100K Accelerate Contest is Nov. 25. Register online at <http://mit100kaccelerate2013.istart.org/>.
- The Chancellor Search Advisory Cabinet seeks your input on the selection of MIT's next Chancellor. Email chancellor-search@mit.edu with your thoughts, or fill out the form at <http://tinyurl.com/chancellorsearch> by Friday, Nov. 22.
- MIT Mocha Moves' Ring the Alarm "Livin' La Vida Mocha" dance competition will take place today from 8 p.m. to 11 p.m. in Lobdell in the Student Center.
- Send news information and tips to news@tech.mit.edu.

NEWS BRIEFS

- Official Cambridge City Council, School Committee results; recount to be held**
The official results of the Cambridge Municipality Council and School Committee elections show no changes in the winners from the previous unofficial results, simply the order of the candidates elected. Four new city councillors: Dennis Benzan, Marc C. McGovern, Dennis J. Carlone, and Nadeem A. Mazen '06 were elected, while two incumbents: Ken E. Reeves and Minka Y. vanBeuzekom were defeated. Two city council seats will be filled by MIT alumni: Mazen is also MIT's head squash coach, and Leland Cheung MBA '12 was reelected. Cambridge will hold a recount for the
- Marc Kastner nominated to head of DOE Office of Science**
Marc A. Kastner, the Donner Professor of Science and dean of MIT's School of Science, was recently nominated to lead the Department of Energy's (DOE) Office of Science. President Barack Obama tapped Kastner to lead this DOE program, which is one of the largest supporters of basic research. The DOE Office of Science is responsible for, among other things, 10 of the 17 DOE national laboratories, and managed a \$4.9 billion budget in 2010. Kastner is a professor in the Department of Physics and researches condensed matter. He served as head of MIT's Department of Physics before becoming the Dean of the School of Science in 2007.

—Tushar Kamath

FORGOTTEN BUT NOT FORGIVEN

The *Armstrong Lie* is a masterful documentary of Lance Armstrong's career. **ARTS, p. 7**

I CAN DO THIS, I SWEAR

Q.E.D.: The little moments in life when your brain forsakes you. **FUN, p. 9**

WHEN IS OUR GROUP MEETING?

Uppercut: We're available at never o'clock. Have fun scheduling. **FUN, p. 8**



CATCHING FIRE IS ON FIRE

The second installment of *The Hunger Games* films does not disappoint. **ARTS, p. 6**

EDUCATING MIT ABOUT ETHICS

President L. Rafael Reif writes about ethics education at the Institute. **LETTERS, p. 4**

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Landmark Senate vote weakens the filibuster

By **Jeremy W. Peters**
THE NEW YORK TIMES

WASHINGTON — The Senate voted Thursday to eliminate the use of the filibuster against most presidential nominees, a move that will break the Republican blockade of President Barack Obama’s picks to Cabinet posts and the federal judiciary. The change is the most fundamental shift in the way the Senate functions in more than a generation. The vote was one that members of both parties had threatened for the better part of a decade but had always stopped short of carrying out. This time, with little left of the bipartisan spirit that helped seal compromises on filibuster rule changes in the past, there was no last-minute

deal to be struck. The vote was 52-48. Mitch McConnell, the Republican leader, denounced Democrats for trying to “break the rules to change the rules” as a way to distract the public from the president’s political problems over his health care law. “You think this is in the best interest of the United States Senate and the American people?” McConnell asked, sounding incredulous. “I say to my friends on the other side of the aisle, you’ll regret this. And you may regret it a lot sooner than you think.” The gravity of the situation was reflected in a highly unusual scene on the Senate floor: Nearly all 100 senators were in their seats, rapt as their two leaders debated. Tensions between the two parties have reached

a boiling point in the last few weeks as Republicans repeatedly filibustered Obama’s picks to the country’s most important appeals court, the U.S. Court of Appeals for the District of Columbia Circuit. The Senate has voted on three nominees to the court in the last month. Republicans have blocked them all, saying they would allow the president no more appointments to that court. Democrats, who filibustered their own share of Republican judicial nominees before they took control of the Senate, have said that what the minority party has done is to effectively rewrite the law by requiring a 60-vote supermajority threshold for high-level presidential appointments. Once rare, filibusters of high-level nominees are now routin

France may be returning to recession, new data shows

By **Jack Ewing**
THE NEW YORK TIMES

FRANKFURT, Germany — Hopes that the eurozone could be emerging from years of torpor suffered another setback Thursday when an indicator of economic activity in the region slipped unexpectedly and suggested that France could be sliding back into recession. The indicator, a survey of purchasing managers published by the research firm Markit, fell to 51.5 in November from 51.9 in October,

according to preliminary data, as the decline in France offset further improvement in Germany. Economists had expected the composite index for the eurozone, which tracks both manufacturing and service sectors, to rise to 52, according to Barclays. A reading above 50 is considered a sign that the eurozone economy is growing. But the index for France fell to 48.5 in November from 50.5 in October, the latest sign of shrinkage in the French economy, the second-largest in the eurozone behind Germany’s. It would be difficult for

the eurozone to grow with any vigor if France were in recession. Overall, the survey data suggested that, even though the eurozone as a whole pulled out of recession in the second quarter of this year, the recovery lacks momentum and is vulnerable to shocks, such as a sag in demand from China and other emerging markets. “Any improvements were largely confined to Germany,” said Chris Williamson, chief economist at Markit. “France, on the other hand, showed further signs of being the ‘sick man of Europe.’”

Drone strikes a seminary outside Pakistan’s tribal region

PESHAWAR, Pakistan — Missiles believed to have been fired by a U.S. drone struck an Islamic seminary in northern Pakistan on Thursday, in a rare strike outside the country’s volatile tribal regions. The attack, in the Hangu District of Khyber-Pakhtunkhwa province, killed six people and wounded five, including several members of the Haqqani militant network, according to a senior Pakistani security official. The attack came as Pakistani officials and politicians from across the political spectrum have intensified criticism of the U.S. drone attacks, particularly after a strike on Nov. 1 killed Hakimullah Mehsud, leader of the Pakistani Taliban, and disrupted the government’s plan to open peace negotiations with the militants. The drone fired missiles into the seminary, near the border with Afghanistan, around 4:30 a.m. Thursday, Iftikhar Ahmad, a local police officer, said in a telephone interview. Local officials said drones had been flying over the area since Monday. “The bodies have been mutilated and burned beyond recognition,” he said. “We are investigating the matter.” —*Ismail Khan, The New York Times*

Working around Keystone XL, Suncor steps up oil production

Suncor Energy, Canada’s top petroleum producer, announced Thursday that it would expand its oil production in 2014 by 10 percent in another sign that the Obama administration’s delay in approving the Keystone XL pipeline extension is not holding back growth in the western Canadian oil sands fields. “We’re set for a strong year of continued production,” Suncor’s chief executive, Steven W. Williams, said. The company announced a capital spending program of \$7.45 billion for 2014, \$477 million more than it had forecast earlier this year. —*Clifford Krauss, The New York Times*

Jury adds \$290 million to what Samsung owes Apple

SAN JOSE, Calif. — A jury on Thursday said that Samsung Electronics would have to pay Apple \$290 million more in damages for violating patents, putting an end to one chapter in the long-running patent struggle between the two tech companies. The six-woman, two-man jury calculated the damages based on 13 products that infringed Apple’s patents. They determined that two smartphones incurred the heftiest damages: Samsung’s Infuse 4G, at about \$100 million, and the Droid Charge, at \$60 million. While the price tag will not significantly affect either company’s pocketbooks, the ruling did give Apple another victory in the companies’ continuing legal fight. —*Brian X. Chen, The New York Times*

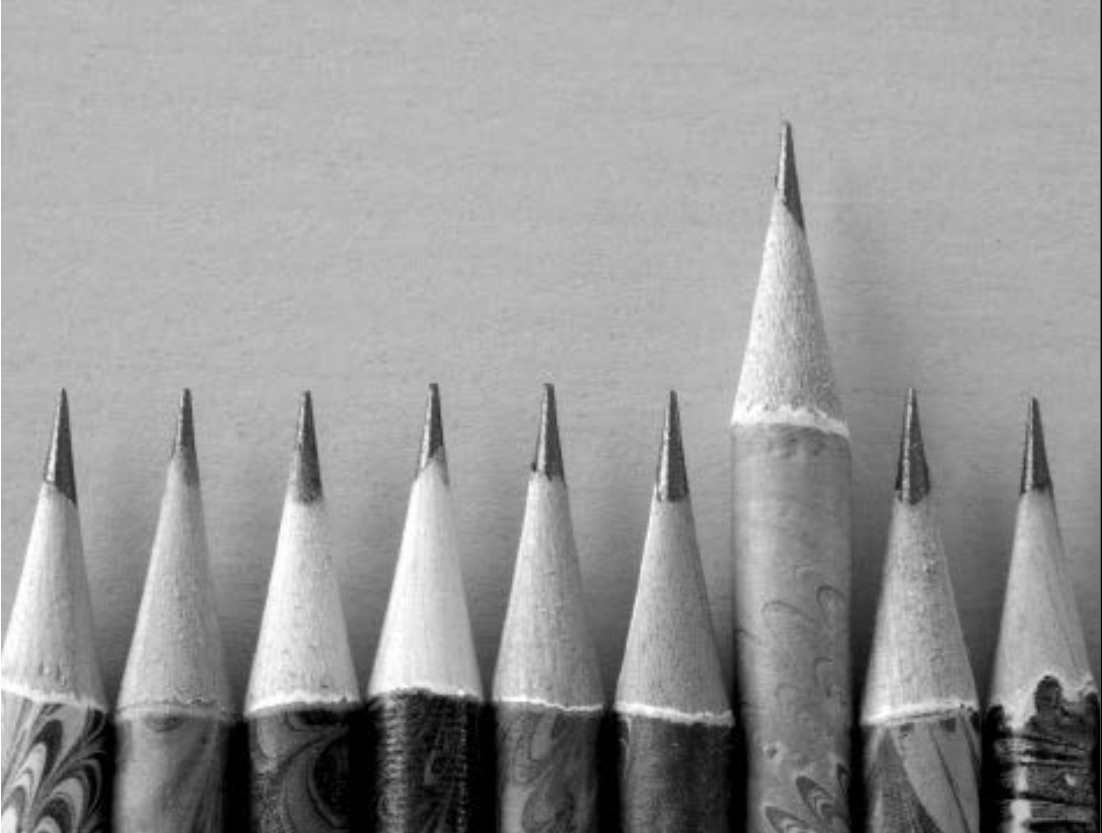
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SCHOOL OF HUMANITIES, ARTS, & SOCIAL SCIENCES

Divestment will fulfill our social responsibility

Fossil fuels, from Page 4

Study after study — from the International Energy Agency to the London School of Economics to the Intergovernmental Panel on Climate Change — has made one simple fact clear: the stated business plan of the fossil fuel industry is incompatible with a safe, stable climate. Look closely at that “1/3” above: if we burn all of the proven reserves of fossil fuels, we would likely put ourselves on a path to more than 5°C of temperature rise. Yet this industry keeps looking for more carbon to burn — and MIT keeps investing in it as part of our endowment.

Every day that we stay invested in fossil fuels, we lend our implicit support to an industry that has a vested interest in delaying the systemic changes our society must make to avert global warming. Any action taken to address climate change — action supported by Americans across the political spectrum — would result in a direct reduction in the profitability of this industry. In the absence of laws restricting such activity, why wouldn't the fossil fuel industry choose

to undermine our democracy and block climate action by buying politicians and spreading doubt about the scientific reality of climate change?

The barriers to climate change mitigation that we now face are political, not technological, and loosening the grip of the fossil fuel industry on our democracy is a prerequisite to effective political action on climate. Divestment strikes at the very root

stopped accepting campaign contributions from tobacco companies. In the 2000s, MIT itself divested from the Sudanese government during the Darfur crisis. Now, in 2013, as the magnitude and injustice of climate change become impossible to ignore, our mandate is clear: MIT must divest from the fossil fuel industry.

Divestment is not just about the pride that would come from being part of a glob-

strength storm were to hit again, thanks to sea level rise — though it would certainly put MIT on a safer path.

Despite these benefits to us and to our Institute, in the end, divestment is about justice. It is about the idea that no one should have to die for us to fund our education. It is about the idea, expressed by Albert Einstein, that those who have the privilege to know have the duty to act. It is about the idea that all generations and all communities, not just our own, should have a voice in deciding whether the next thousand years look like the ones in which human civilization developed, or whether we should rush headlong into a dramatically more unstable future when our top scientists and scientific organizations are saying, "Stop."

Divestment acts on the belief that if MIT chooses to stand up and lead, the world will follow. Over 1700 MIT students, faculty, staff, and alumni have signed a petition saying they believe MIT should make that choice. Have you?

Patrick Brown is a graduate student in the Department of Physics and is a member of Fossil Free MIT.

A proven tactic, divestment acts on the belief that if MIT will stand up and lead, the world will follow.

of this issue, removing the social license that the fossil fuel industry depends upon to operate.

Divestment is not a new idea — it is a proven tactic with a well-defined theory of change. In the 1980s, many universities divested from companies profiting from the Apartheid regime in South Africa, putting international pressure on the South African government. In the 1990s, after reports of disinformation by tobacco companies and widespread divestment, most politicians

ally recognized Institute that lives up to its own stated values — though it would certainly generate that pride. It is not just about protecting our endowment from a “carbon bubble” that would decimate the value of fossil fuel companies if the world decides to make the necessary transition away from fossil fuels — though it would certainly lead to an endowment with more long-term stability. Divestment is not just about protecting our campus from the three feet of water that MIT would be under in 2050 if a Sandy-



Courtesy of Rita Fang, The Daily Princetonian

Can be found online at <http://dailyprincetonian.com/opinion/2013/11/cartoon-grades-at-colleges/>

Sequel to *The Hunger Games* film surpasses the original

So, Snow insists, Katniss must convince the people that she defied the Capitol only because she was in love with Peeta. But the citizens still begin to revolt, inspired by Katniss. The retaliatory viciousness of the Peacekeepers combined with the

This is really Jennifer Lawrence's movie though — she shines in every scene. While eulogizing a friend who died in the previous *Hunger Games*, her shaky voice and tearful



Peeta Mellark (Josh Hutcherson) and Katniss Everdeen (Jennifer Lawrence) in *Catching Fire*, the second installment in The Hunger Games series.

Even with the widening scope of *Catching Fire*, Jennifer Lawrence makes the movie a thrilling ride. It's certainly an amazing movie, better than the first *Hunger Games* movie, and possibly even better than the book.

Now Playing

A historical drama about a German family harboring a Jew during WWII



In *The Book Thief*, Liesel (Sophie Nélisse) sneaks into a neighbor's well-stocked library to pursue her love of reading.

The movie definitely has its moments of suspense,



Liesel (Sophie Nélisse, center), her friend Rudy (Nico Liersch), and her foster mother Rosa (Emily Watson) await news in a bomb shelter in *The Book Thief*.

ARTS EVENTS
NOV. 22 – NOV. 28

FRIDAY

- (9:00 a.m. – 6:00 p.m.)** Landing Studio presents 99 Marginal: 9 Strategies for Landing Industry in the City. Open through Sunday — 7-408
- (9:15 a.m. – 7:00 p.m.)** Architecture/Computation/Media Lab Symposium Day 2: Futures Past - Design and the Machine. Open to the public — E14, 6th Floor
- (12:00 p.m. – 1:30 p.m.)** “Conservative Internationalism: Armed Diplomacy under Jefferson, Polk, Truman, and Reagan” Book talk and discussion with Henry R. Nau and Steve Van Evera — E40-496, Lucian Pye Conference Room
- (1:30 p.m. – 2:30 p.m.)** MIT Water Club presents Sea Level Rise on Coastal Urban Design — 66-168
- (4:00 p.m. – 6:00 p.m.)** Fossil Free MIT presents *Chasing Ice*: Free Film Screening + Ice Cream — 35-225
- (5:00 p.m. & 8:00 p.m.)** LSC presents *Despicable Me 2* — 26-100
- (8:00 p.m. – 10:00 p.m.)** MIT Guest Artist Series presents: the Jupiter Quartet in the first concert of complete Beethoven String Quartet Cycle performances at MIT — Kresge Auditorium
- (8:00 p.m. – 10:30 p.m.)** The Musical Theatre Guild Presents Mel Brooks’ Young Frankenstein — W20-202
- (8:00 p.m. – 11:00 p.m.)** Mocha Moves Dance Squad hosts dance competition Ring the Alarm 2013 — W20

SATURDAY

- (10:00 a.m. - 8:30 p.m.)** Architecture/Computation/Media Lab Symposium Day 3: Futures Past - Design and the Machine. Open to the public — E14-6th Floor
- (5:00 p.m. & 8:00 p.m.)** LSC presents *Despicable Me 2* — 26-100
- (8:00 p.m. – 10:00 p.m.)** MIT Festival Jazz Ensemble directed by Frederick Harris, Jr. — Kresge Auditorium
- (8:00 p.m. – 10:30 p.m.)** The Musical Theatre Guild Presents Mel Brooks’ Young Frankenstein — W20-202

SUNDAY

- (4:00 p.m. – 6:00 p.m.)** MIT Gospel Choir Fall Concert — 6-120
- (8:00 p.m. – 11:00 p.m.)** MIT Folk Dance Club presents International Folk Dancing — W20-491

MONDAY

- (7:00 p.m. – 9:00 p.m.)** ACT Lecture: Tarek Elhaik: The Incurable-Image — E15-001
- (7:30 p.m.)** It’s Alive: A series of staged play readings featuring students, professional actors, and faculty directed by Anna Kohler — Killian Hall

TUESDAY

- (5:30 p.m. – 7:30 p.m.)** Architecture/HTC Lecture: Ruben Gallo, “Radioscapes: Acoustic Modernities” — 7-429

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

MOVIE REVIEW

Forgotten but not forgiven

A brilliant epitaph for Lance Armstrong’s career

By Kristen Sunter
STAFF WRITER

Oscar-winning director Alex Gibney began filming a documentary about Lance Armstrong’s comeback at the 2009 Tour de France, four years after his last win in 2005. But after the infamous 2013 interview with Oprah, Gibney realized that Armstrong had just been using his documentary to bolster his already crumbling story. Gibney was ultimately able to weave the damning footage of his previous interviews into a story of betrayal to deliver a play-by-play of one of the farthest falls from grace in the history of sports.

Although none of the previous allegations against him had stuck, in 2009, Armstrong said he wanted prove once and for all that he could compete without doping. At least, that was the story that Gibney was expecting to tell when he followed him on the three-week Tour de France. Armstrong said he thought another victory would somehow silence his critics, but his surprising performance actually made them dig deeper, and Gibney weaves the tale of the tightening noose around Armstrong’s legend with the suspense of a crime novel.

This documentary is not just a story of an athlete or even a glimpse into the world of cycling; the filmmaker tells his own story of being duped by Armstrong in the voiceovers. After the Oprah interview, Gibney tells Armstrong that he owes him at least an interview in explanation, which is woven with previous footage and interviews of Armstrong insisting that he never doped.

In retrospect, Armstrong doth protest too much: he certainly looks like a liar when the camera zooms in on him, though one wonders if those shots were

originally framed to show his look-you-in-the-eyes honesty. The interview after Oprah is perhaps more emotional, but he still looks like he’s lying, or at least trying to win sympathy by claiming he was forced to defend his story as it grew out of proportion, as though he had gotten backed into a corner.

Armstrong said at one point that his comeback wasn’t about proving himself to his critics, but here his assertions aren’t even lies anymore, but sports clichés lived large.

It will be a shame if Gibney’s masterful documentary does not receive the attention it deserves.

Armstrong is not vindicated, but we can begin to see the outlines of his dark path. As Betsy Andreu, the wife of one of his former teammates, said, it wasn’t just the doping or even the lies, it was the abuse of power. Armstrong says that “ [I] like to win, but I can’t stand losing because that equals death”. One question the documentary asks repeatedly is why he bothered with the comeback. If he had simply retired, no more questions would have been asked. But several people interviewed, including former teammates and friends, suggest that he didn’t want to just win, he wanted to dominate.

Gibney does not let him dominate this documentary, though. He lets Frankie and Betsy Andreu speak of how Armstrong bullied them and how his

★★★★☆
The Armstrong Lie
Directed by Alex Gibney
Rated R
Now playing

associates and supporters did as well, including one exceptionally vicious answering machine message from a woman who worked for one of Armstrong’s sponsors. He tells the story of the massive alleged cover-up headed by Hein Verbruggen, then president of the body that governs sports cycling. Children with cancer were told that not only could they beat the disease, but like Lance, they could become better than they were, which shows an especially poignant facet of the lie. Gibney obtained the rare permission to interview the doctor who was helping Armstrong cheat by getting information from sources in antidoping labs so he could stay ahead of the curve — the doctor who continued to work with Armstrong surreptitiously even after he was convicted. Each of these sets of interviews becomes a riveting subplot of its own.

Armstrong says in one interview segment that people will “either forgive and forget and move on or they won’t.” It will be a shame if Gibney’s masterful documentary does not receive the attention it deserves because Armstrong has been forgotten but not forgiven, and the sports world long ago moved on.



FRANK MARSHALL

Lance Armstrong in *The Armstrong Lie*, a documentary about the rise and fall of the cycling legend.

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We can't help you with your research, but why don't you tell us what else is wrong?

Maybe we can work through it so you don't need to go off on your insane road trip!

My dorm has mice!

I'll never graduate!

The campus dining options are terrible!

I don't know what there is to live for.

I'm always cold.

None of the classes I want to take are offered this year!

I can't sleep.

No one cares about grad students!

The admissions committee made a mistake.

...I'll help you pack.

You can borrow my car.

WHAT ABOUT THURSDAYS AT 3?

SORRY, I'VE GOT A CLASS THEN.

THERE HAS GOT TO BE A TIME WE CAN ALL MEET UP TO WORK ON THIS PROJECT.

WEDNESDAYS AT 4?

SORRY, I'VE GOT INTRAMURAL CROQUET.

SERIOUSLY?

I GOTTA BE THERE FOR MY TEAM!

I DON'T THINK THAT LEAVES US MANY OPTIONS.

SATURDAY 8AM

ALRIGHT... I'M HERE. LETS... YAWN... START THE MEETING.

THE... THE WHAT?

STEVE SULLIVAN NOVEMBER 2013



53 Grain inspection agcy.
54 Cranky mood
57 Focus of many ESPN
programs
58 Go fast

Q.E.D. (QUITE EASILY DONE)

BY ERIKA TRENT

MOMENTS THAT MAKE YOU DOUBT YOUR INTELLIGENCE

Sudoku I

Solution, page 11

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

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Sudoku II

Solution, page 11

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

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 I

Solution, page 11

18x		18+		10x	
2				8x	
72x			6x	1-	
30x					6x
1-			15x		
	240x				3

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.

Techdoku II

Solution, page 11

12x		3-			5
6÷		3x	60x		12x
20x				12x	
12x		20x	7+		4
1				45x	
240x					1

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.

Gender neutral housing policies:

- Ⓑ Brown
- Ⓒ Columbia
- Ⓓ Cornell
- Ⓓ Dartmouth
- Ⓓ Harvard
- Ⓜ MIT
- Ⓟ Princeton
- Ⓢ Stanford
- Ⓤ UPenn
- Ⓨ Yale

Have gender neutral housing available for all class years Ⓑ Ⓒ Ⓜ Ⓟ Ⓢ Ⓤ	Only offer gender neutral housing for upperclassmen Ⓓ Ⓟ Ⓢ Ⓨ
Gender neutral housing in all co-ed residences Ⓒ Ⓓ Ⓤ Ⓨ	Only offer gender neutral housing in certain residences Ⓑ Ⓓ Ⓓ Ⓜ Ⓟ Ⓢ
Allow romantic couples to live together Ⓑ Ⓒ Ⓜ Ⓤ Ⓨ	Do not allow romantic couples to live together Ⓓ Ⓓ Ⓓ Ⓟ Ⓢ
Option to be assigned a gender neutral roommate Ⓓ Ⓜ Ⓤ Ⓨ	Students must specify a gender neutral roommate Ⓑ Ⓒ Ⓓ Ⓓ Ⓟ Ⓢ

INFOGRAPHIC BY WILL CONWAY, XIN HE, AND KRITHIKA SWAMINATHAN

Opt-in policy will be developed in-house

Housing to work with leadership in dorms on community policies

Housing, from Page 1

roommates beforehand, which is why the option is typically not available to freshmen, but some schools allow random-assignment among students who opt for gender-inclusive housing.

Other schools' policies are being taken into consideration by Residential Life & Dining while devising MIT's unique version of gender-inclusive housing policies.

Henry J. Humphreys, senior associate dean of Residential Life & Dining, believes that the implementation of gender-inclusive housing should be a collaborative effort within the MIT community. "It's important for MIT to develop a system for all students to feel comfortable in housing," said Humphreys. "The housing office will have to work with the housemasters and rooming chairs in each community." Humphreys will include the Housing Strategy Group (HSG) — consisting of faculty, graduate students, undergraduate students, and staff — in the discussion about gender-inclusive housing options as well.

Humphreys and the Dormitory Council (DormCon) both agree that gender-inclusive housing will require an opt-in — no student will be assigned to room with someone of the opposite gender or of a different gender identity without consent. "Gender-inclusive housing will not be forced upon anyone," said Eli H. Ross '14, DormCon pres-

ident. Ross also adds that conflicts between roommates in gender-inclusive living spaces could be handled in the same manner as any other roommate conflict would be handled within that community.

Cory D. Hernandez '14 was one of the main advocates for initiating gender-inclusive housing at Senior House. Hernandez conducted a survey that showed that among the 63 percent of Senior House residents who participated, 96 percent voted that gender-inclusive housing should be an option for all residents.

At Senior House, adding the gender-inclusive housing option was as simple as two additional questions on the room assignment survey. The rooming surveys now ask students to name their gender identity and the preferred gender identity of their roommate.

Gender-inclusive housing policies will vary by dorm. "It's important to establish what communities' policies are," said Humphreys. One of the issues he looks to overcome is introducing gender-inclusive housing options in a way that can be confidential for students opting in. "I think that one of the biggest issues is how to help students find this housing without having to out themselves," said Humphreys.

Humphreys intends to move forward with collaborative efforts regarding gender-inclusive housing at the beginning of the spring semester.

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Meeting, from Page 1

“Most of the governance takes place in the committees. That’s not unusual in a representative democracy,” Silbey said. “That’s why we have in each of our committees one from each of the five schools, why we have representation of students on the committees.”

Designing a government is no trivial task, she added. “You can’t have meetings of 1,000 people.”

Sympathizing with faculty who do not attend the meetings, Silbey said that if she were not a faculty officer, she would probably attend weekly seminars on economic sociology instead of the faculty meetings, though she also said she did not think she would necessarily attend more faculty meetings if the seminars were moved to Mondays.

“I got a lot of things to do,” Silbey said.

Still, she and others at the meeting agreed afterwards that struggling to achieve a three-percent turnout was nothing to be proud of. It was a state of affairs then-Chancellor Eric Grimson PhD ’80 called “a little embarrassing” in October.

“They’re afraid that the oligarchy has gotten too narrow,” Silbey said.

—Leon Lin

Report gives glimpse of MIT’s future

Education, from Page 1

here at MIT that permits that kind of flexibility, but holds true to our principles and values that, at the end of the day, MIT graduates would be proud of,” said Willcox.

More collaborative spaces

In addition to academic changes, the preliminary report addresses campus environment. To deal with the increased ability for students to skip lecture by simply watching them online, the future campus environment may well be in the form of “academic villages” and “maker spaces.” Academic villages would comprise of classrooms, breakout spaces, study spaces, labs, and faculty offices, among other types of academic and study spaces. According to the report, these villages would “promote serendipitous interactions between students and faculty members, inviting and attracting students and faculty to link and work in the academic areas of campus rather than withdrawing to their more distant living spaces.” Maker spaces would be more intended to promote creativity, similar to the existing Hobby Shop or Edgerton Shop. Such maker

spaces are also a focus in the Innovation Initiative, the vision for which included spaces for students to “create products” and “spin off companies.”

Implications of edX

The report also highlighted opportunities that edX could bring to the table. Not only is it a vehicle of disseminating knowledge to the world, it also introduces MIT to people who otherwise would not have, vise versa. For example, the task force cited a recent admit from Mongolia, who used edX extensively and received mentorship from MIT alumni. According to Sanjay Sarma, a co-chair of the Task Force and Director of Digital Learning, edX allows one to “re-build the university around the individual.”

“Just as you can make a playlist out of songs from different albums, they can take this class and that class, and they can go to a local university and maybe do a lab there, and maybe find a member that becomes their equivalent of a professor there,” said Sarma, highlighting the possibilities for the edX student.

According to the report, MIT students can benefit from this

unbundling by participating in teaching worldwide or engaging in more extensive fieldwork while taking classes from MITx. Willcox suggested that students may be able to spend a semester interning at a company, all while completing MIT classes online.

Future financial model

The sustainability of the Institute’s existing financial model cannot be ignored in light of all of the proposed academic possibilities. The preliminary report highlights that the existing financial model of MIT has been extremely successful. It cites that the value of an MIT education remains high, with the average starting salary generally exceeding the median U.S. family income.

However, the report cites significant challenges with the future sustainability of its current revenue mix, with constrained federal research dollars, an endowment subject to volatile market conditions, growing campus size, and the need of recruiting top talent.

Currently, MIT receives about \$2.2 billion in campus revenues, which excludes \$891 million in revenue received from research at the Lincoln Laboratory. The ma-

jority is from research and endowment investments, which together account for \$1.25 billion or 56 percent of total operating revenues. Tuition payments from all schools account for 14 percent of yearly revenues, totaling \$310 million.

The third working group suggested many solutions to future risks. Some potential revenue opportunities cited are expanding summer programs and executive education, and potentially monetizing edX. In addition, there is the potential to expand in technological licensing activities. However, many of these opportunities also are “fraught with potential conflicts of interest.” Therefore, according to the report, “this risk must be carefully weighed against any benefits from entrepreneurship.”

“What I would expect is that we can keep investing back in even more generous financial aid,” said Israel Ruiz SM ’01, a co-chair of the Task Force and Executive Vice President and Treasurer of MIT.

The final report by the Institute-wide Task Force on the Future of MIT Education is expected to be released at the end of the academic year in June 2014.

Leon Lin contributed reporting.

Solution to Sudoku I

from page 9

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

Solution to Sudoku II

from page 9

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

Solution to Techdoku I

from page 9

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

Solution to Techdoku II

from page 9

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

Solution to Crossword

from page 8

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

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