Gender-inclusive policies expanding
Collaborative efforts on campus-wide policy to begin in the Spring

By Alexandra Delmore

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. Policies opting for gender-inclusive housing would allow students to live 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 amongivy league schools as well as Stanford and have gender-inclusive housing options for upperclassmen; Cornell, Dartmouth, Harvard, and University of Pennsylvania have gender-inclusive housing available for students.

“We’re going to expand beyond Senior House and Random Hall this coming Spring,” said senior facultysaid senior faculty officer, Professor Diana Henderson, a faculty officer said that the issues today were as important as those discussed in place in the past. “The challenge is how we put a structure in place in Education, Page 11

Sparse attendance plagues faculty meetings

In a first for this semester, the Novem¬ber 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 professors Steven R. Hall ’80, the faculty chair, for a recount. Spotting 32 raised hands, Hall gave the green light for the gathering to approve meeting minutes from May, September, and October.

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

“If we 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 faculty officer said that the issues today were as important as those discussed in place in the past. “The challenge is how we put a structure in place in Education, Page 11

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 seems to be a time for us to think about introducing flexibility into education,” said Karen E. Wilcox PhD ’90, 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 discussion include expanding SB/MEng programs, offering credit for taking MITx classes, and more modularity with the GHRs. However, that flexibility must deal with care¬fully: “The challenge is how do we put a structure in place in Education, Page 11

Task force releases new report on MIT education

Future of MIT’s academics, edX, & finances

By Anthony Yu

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 Feb¬ruary, Reif charged the Task Force to explore “bold” possi¬bilities of the future of MIT ed¬ucation 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 the financial model for education.

The Chancellor Search Advisory Cabinet seeks your input on the selection of MIT’s Chancellor:

Email chancellor-search@tech.mit.edu

The seven members are: Leland C. Cheung MBA ’12, co-chair of the task force and president of the Cambridge City Council; Kelly, Fran A. Cronin, and Mervan F. Os¬man, members of the Cambridge City Council; Michael J. Schulman, a former faculty officer; and the City’s mayor, Marc C. Kastner nominated to head of DOE Office of Science

Marc A. Kastner, a former Professor of Science and dean of MIT’s School of Sci¬ence, was recently nominated to lead the Department of Energy’s Office of Science. President Barack Obama tapped Kastner to lead this DOE program, which is one of the largest supporters of basic re¬search. The DOE Office of Science is respon¬sible for advancing technologies, which is among the most important fields.

Meeting, Page 11

IN SHORT

The deadline to apply for the MIT $100K Ac¬celerated Contest is Nov. 25. Register online at http://summer2013.acceleratedcontest.istart.org/

The Chancellor Search Advisory Cabinet seeks your input on the selection of MIT’s chancellor. Email chancellor-search@tech.mit.edu with your thoughts, or fill out the form at http://mit100kaccelerate2013.istart.org/

The Silicon Valley Scanner

fun@tech.mit.edu

I CAN DO THIS, I SWEAR

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

WHAT IS OUR GROUP MEETING?

UpperWest: We’re available at never a clock. Have fun scheduling. FUN, p. 8

Catching 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

WEATHER, p. 2

FRI: 47° | Cloudy with showers
SAT: 30° | Sunny and breezy
SUN: 30° | 20° | Cold and windy

FORGOTTEN BUT NOT FORGIVEN

The Armstrong Lie

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

Staff Reporters

Staff Reporters

Staff Reporters

Staff Reporters

Established 1881

280 Quincy St., Cambridge, MA 02139

Established 1881

Call for proposals. There are plans to expand beyond Senior House and Random Hall this coming Spring.

Senior House is one of two dorms that is piloting MIT’s gender-inclusive housing program.

Staff Reporters

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British citizens said to be killed while fighting in Syria

LONDON — As evidence mounts that dozens of Americans have traveled or sought to travel to Syria to join rebel forces, the British Foreign Office said Thursday that it was investigating reports that several Britons were killed there while fighting alongside Syrian Muslims. The reports come amid signs that a growing number of veteran and amateur fighters are heading to western Syria and have joined the Islamic militant group that now controls a large swathe of the country.

The official said a report in The Times of London on Thursday that four Britons had been killed was being investigated.

Vote fraud is claimed by Maoists in Nepal

NEW DELHI — In the face of an apparent electoral drubbing, the leader of Nepal's biggest Maoist party demanded a halt to the nation's vote counting Thursday because of what he called "widespread vote fraud." The chief of the official body handling vote counting was so enraged at the allegations that he smashed ballot boxes and warned that his party might rejoin hard-line Maoists while he received what he called "intensive in-patient treatment."

"I want to be a better man for southwest Florida," Radel said in a 10:30 p.m. news conference in Florida. He added that he would donate his salary while he was under investigation, and that he would resign if the board found "sufficient cause," which he said would be in just a few days.

By Alan Cowell, The New York Times

Karzai says security pact with US should be signed next year

He was sentenced to one year of probation.

WASHINGTON — Rep. Trey Radel, R-Fla., announced late Wednesday that he would take a leave of absence from office after pleading guilty earlier in the day to misdemeanor charge stemming from his purchase of cocaine here last month.

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China's highest court seeks to curtail abuses of justice

China’s highest court has published an overview of the commitment by the leader of the United Commu- nist Party of Nepal (Maoist). Dahal said that election workers had smashed ballot boxes and called widespread vote fraud. The official said a report in The Times of London on Thursday that four Britons had been killed was being investigated.

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France may be returning to recession, new data shows

By Jack Ewing

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, where the recovery is stronger, said Chris Williamson, chief economist at Markit. “France, on the other hand, showed further signs of being the ‘sick man of Europe.’”

Landmark Senate vote weakens the filibuster

By Jeremy W. Peters

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 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’ve got it wrong. 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 filibusted 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 routine.

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LETTERS TO THE EDITOR

Ethics education at the Institute

In his letter to The Tech last Friday, Gregory Kruez ’15 presents our community with a profound challenge. He describes with gratitude hearing a MIT professor impart such a principled stance on financial ethics in research. But Gregory goes on to explain that his own education at MIT has not given him clear ways to think about the moral, ethical, and societal context of the advanced technical work MIT is preparing him to do.

He then offers this challenge: “As MIT seeks to reach beyond the residential campus and reach the ‘next billion people,’ the Institute cannot lose sight of its responsibility to provide a framework and context for the knowledge it provides to the world. Initiatives like edX provide the Institute with enormous power and a lead to define this decade and the 21st century as it did in the 20th. But with this power comes the responsibility to provide a solid ethical framework for all of the members of the MIT community.”

Gregory’s thoughts resonates with the research findings of the preliminary report of the Institute-Wide Task Force on the Future of MIT Education, released yesterday. In offering a possible future vision of MIT Education, the Task Force authors argue that “Finally, there is a need to better develop our students’ ethical skills. This encompasses ethical behavior and academic honesty as it relates to their conduct in education and research—an even more pressing issue with online classes—as well as the broader ethical issues arising in their technical disciplines. A greater emphasis on contextualizing engineering education is possible way to address this issue.”[p. 27]

In every School at MIT, there are many good, significant ongoing efforts to help our students develop their personal and professional ethics. Do these efforts go far enough? We owe to our students—and to the world we send them out to serve—to provide a deep, effective ethical education. Can we really say we are teaching our students this? Or are we leaving ethics out of the question? Surely right and wrong should be among the explicit boundary conditions in solving any important problem. If we aim to give our students the intellectual tools to solve real-world problems, we must also give them the ethical tools to understand the real-world consequences of their choices—and the moral tools to do this right thing.

Last June at Commencement, I shared one of my ambitions with our graduating class—that I want MIT to be famous not only for its scientific and technical achievements, but also for how we treat our students—famous for sympathy, humility, respect, and kindness. In that spirit, I believe we should strive to make our community one where—as with the example of the MIT professor Gregory describes in his letter to us all—our students, faculty, and staff operate with the highest integrity and ethics, too. As an institution, MIT has a notable history of taking the high road, and we must teach our students, and remind each other, why that is important and how it is done.

Like Gregory, I am not yet certain what path we should follow to understand the ethical awareness of our community and the ethics education of our students. But I am certain that we need to work together to find that path. This task will be an important responsibility of MIT’s next Chancellor. I also welcome reflections and ideas from anyone in the community on the best way to get this done.

Sincerely,
L. Rafael Reif
MIT President

CORRECTIONS

An article in Tuesday’s issue on MIT’s Athena clusters misstated the title of Jonathan D. Bred ’02 and neglected to include his middle initial and class year. He is the IS&T Special Liaison to the Students. The same article also listed the incorrect room number for an Athena cluster (37-312 is a cluster, not 36-323). Additionally, the Building 37 clusters have already closed permanently.

GUEST COLUMN

MIT should divest from fossil fuels

Our chance to take the lead on climate change

By Patrick Brown

4,000 number of people confirmed killed by Typhoon Haiyan, however the most powerful storm ever to make landfall. The estimated combined damage to the U.S. in 2012 from weather and climate disasters was $61 billion.

1/3: The fraction of coal, oil, and gas currently contained in proven fossil fuel reserves that humanity is allowed to burn if we desire a 50 percent chance of staying below 2°C temperature rise, the globally-agreed-upon “acceptable limit” to human-induced global warming. Staying under 1.5°C will require an “unprecedented rate” of decarbonization.

I believe that most members of the MIT community understand the climate crisis on some level, and to the degree that something must be done. But what is MIT’s role in addressing this crisis? We already do ground-breaking research in solar cells, batteries, and climate science. Is that enough? What is one of the greatest possible steps MIT could take in this race against climate change?

It is an obvious, predictable global catastrophe? It’s simple, MIT should divest from fossil fuels.

Guest columns are opinion articles submitted by members of the MIT or local community.

Fossil fuels, Page 5

Fossil fuels

...
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 — 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 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 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 global movement to address climate change. 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-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.

Fossil fuels, from Page 4

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

This movie’s on fire
Sequel to The Hunger Games film surpasses the original

By Chennah Heroor

Catching Fire — the sequel to the 2012 film The Hunger Games, based on the second book in Suzanne Collins’s Mockingjay trilogy — is simply amazing.

Set in the apocalyptic Panem, Katniss Everdeen (Jennifer Lawrence) is just trying to get back to normal at home in District 12. Or as normal as you can get after being forced to fight 22 other children in a televised fight to the death in the Hunger Games for the “Capitol,” the ruling district.

Unfortunately, she’s drawn the ire of President Snow, the leader of Panem. Katniss won the games with a last-minute trick, making herself and her pretend boyfriend Peeta Mellark (Josh Hutcherson) co-champions, but this trick looks like an act of defiance to the people of Panem, giving them hope that they can revolt.

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 starkness of the districts makes every riot seem terrifyingly real. When citizens are killed, Katniss’ anguish reminds us that this isn’t a game.

Snow’s solution is to send Katniss, and all previous victors to an even bigger Hunger Games — the Quarter Quell — hoping to finish off Katniss’s troubleshooting for good.

After the success of The Hunger Games, Catching Fire received a bigger budget, and the movie clearly put the money to good use. The new arena for the games is filled with amazing gadgets, horrific beasts, and beautiful colors, highlighting the difference between the poor districts and the unbelievably wealthy Capitol.

The movie also benefits from the reduction in exposition. You’ll definitely need to see the Hunger Games or read the books to catch all the references, but this movie doesn’t have to waste time setting up the story. Plus, Catching Fire smooths over heavy-handed allegories about society’s materialism to make more time for action.

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 face convey the consequences of so much death, even though the movie seems to rush over the impact at times. As a result, other characters seem mundane by comparison. The dictatorial President Snow seems as harmless as a butterfly when making death threats, yet Lawrence’s terrified face makes us feel real fear.

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.

MOVIE REVIEW

Through the eyes of death and a child
A historical drama about a German family harboring a Jew during WWII

By Karleigh Moore

You know you are in for an interesting movie when it is narrated by Death himself. Death first sees our main character Liesel on a train, when he comes to take the soul of her sick and dying younger brother. He is intrigued by her for some reason he cannot place, and follows her life story as it progresses.

After that tragic train ride and a hasn’t funeral, Liesel finally arrives at the home of her new foster parents, the Hubermanns. They take in young Liesel because her mother can no longer care for her — it is Germany during the Third Reich, and we discover that her mother was a communist. Though the story is set in such a dark time and place, the movie is surprisingly light at times. Liesel develops a close relationship with her new father Hans, played by Geoffrey Rush, who teaches her to read, and lets her write the new words she has learned on the walls in their basement. Liesel’s first friend in town is a young boy with quite a sense of humor, named Rudy. Rudy develops a crush on Liesel, and this leads to several adorable scenes where he tries to win a kiss from her.

Both Liesel and Rudy attend school wearing military-like uniforms with swastika insignia, learning to praise the Führer without question. We see that Liesel doesn’t really understand what is happening in Germany until one day when a Jewish teenager, Max, seeks refuge in her new home. Max stays hidden in the family’s basement, and Liesel spends many hours reading to him and bringing him news from the outside. Their friendship is heartwarming, and adds a relatable dose of emotion to the story.

The movie definitely has its moments of suspense, as would be expected for a story about a family in mid-WWII Germany harboring a Jewish man in their basement. It also has several heartbreaking and tear-jerking scenes, but I have to say I left the theater with a sense of hope. I came to the same conclusion that Death did, that humans are horrible but beautiful creatures, always with a trick up their sleeves and the capacity for kindness and love.

Overall, The Book Thief is definitely worth seeing. The movie is by no means a Nazi-focused film, rather a narrative of a child trying to make sense of life during a horrific time. The casting, the plot, the characters, and their interactions — all are amazing. You won’t be disappointed, though perhaps a little teary eyed, so I would recommend tissues.

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**FRIDAY**

- **4:00 p.m. – 6:00 p.m.** | Lecture: Despicable Me
- **7:00 p.m.** | MIT Festival Jazz Ensemble
- **8:00 p.m. – 10:00 p.m.** | MIT Guest Artist Series, directed by Frederick Harris, Jr.
- **10:00 p.m. – 12:30 a.m.** | The Musical Theatre Guild presents Mel Brooks’ Young Frankenstein
- **12:00 a.m. – 1:30 p.m.** | “Conservative International-Tuesday”
- **1:30 p.m.** | Millett Library Conference Room
- **2:30 p.m. – 4:00 p.m.** | Arts@Tech Symposium Day 1: Futures Past - Design and the Machine
- **4:00 p.m.** | MIT Open House — N52-118

**SATURDAY**

- **10:00 a.m. – 11:00 a.m.** | Incurable-Image, directed by Anna Kohler
- **11:00 a.m. – 12:00 p.m.** | Acts International Folk Dancing
- **12:00 p.m. – 1:30 p.m.** | MAE Lecture: Tarek Elhaik: The Challenges of Testifying in the Sport of Cycling
- **1:30 p.m.** | Lucian Pye Conference Room
- **2:30 p.m.** | MIT Water Club presents Sea Level Rise on Coastal Urban Design — 66-168

**SUNDAY**

- **4:00 p.m. – 6:00 p.m.** | MIT Gospel Choir Fall Concert — E14-612
- **8:00 p.m. – 11:00 p.m.** | MIT Folk Dance Club presents International Folk Dancing — 12-491

**MONDAY**

- **7:00 p.m. – 9:00 p.m.** | ACT Lecture: Tarek Elhaik: The Incurable-Image — E14-601
- **7:30 p.m.** | “It’s Alive: A series of staged play readings”

**TUESDAY**

- **5:30 p.m. – 7:30 p.m.** | Architecture@HMC Lecture: Ruben Gallo, "Radioscopes: Acoustic Modernities"

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**ARTS EVENTS NOV. 22 – NOV. 28**

**FRIDAY**

- **9:00 a.m. – 6:00 p.m.** | Landscape Studio presents 99 Marginal: 9 Strategies for Landscaping Industry in the City. Open through Sunday — 7-428
- **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 — E40-486, 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 — W20-202

**SUNDAY**

- **4:00 p.m. – 6:00 p.m.** | MIT Gospel Choir Fall Concert — E14-612
- **8:00 p.m. – 11:00 p.m.** | MIT Folk Dance Club presents International Folk Dancing — 12-491

**MONDAY**

- **7:00 p.m. – 9:00 p.m.** | ACT Lecture: Tarek Elhaik: The Incurable-Image — E14-601
- **7:30 p.m.** | “It’s Alive: A series of staged play readings”

**TUESDAY**

- **5:30 p.m. – 7:30 p.m.** | Architecture@HMC Lecture: Ruben Gallo, "Radioscopes: Acoustic Modernities"

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**MOVIE REVIEW**

**Forgotten but not forgiven**

By Kristen Sunter

Oscar-winning director Alex Gibney began filming a documentary about Lance Armstrong’s comeback at the 2009 Tour de France, four years after his 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 darkest falls from grace in the history of sports.

Although none of the previous allegations against him had stuck, in 2009, Armstrong said he wanted to 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 reveals that Armstrong’s legend is now “incurable” (the word he chose to describe his condition). Gibney tells Armstrong that he was convicted. Each of these sets of questions force Armstrong 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 that his assertions aren’t even lies anymore, but sports clichés lived large.

---

**The Armstrong Lie**

Directed by Alex Gibney

Rated R

Now playing

**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 Andreus, 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, suggested that he didn’t want to just win, he wanted to dominate.

Gibney does not let him dominate this documentary, though. He lets Armstrong’s sponsors. He tells the story of Armstrong’s fall from grace in the history of sports.

Armstrong is not vindicated, but we can begin to see the outlines of his dark path. As Betsy Andreus, 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, suggested that he didn’t want to just win, he wanted to dominate.

Gibney does not let him dominate this documentary, though. He lets Armstrong’s sponsors. He tells the story of Armstrong’s fall from grace in the history of sports.

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

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**FEATURING**

For more information about the Tech Model Railroad Club, visit tmrc.mit.edu.

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**THE TECH Model Railroad Club**

Come see what we build! www.tmrc.mit.edu

**Friday, November 22, 2013**

**N52-118**

**Open House**

Saturday November 23, 2013 2-5pm & 7-10pm

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**THE TECH 7**

Friday, November 22, 2013
Somewhere on the Search for Meaning by Letitia Li

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

My dorm has mice!
I’m always cold.
I’ll never graduate!
No one cares about good students.
I don’t deserve to be here.

The admissions committee made a mistake.
The computer thingy thingy is to live on.
There is to live on.
Take one of the classes I want.
I can’t shop.

You can borrow my car.

UPPERCUT by Steve Sullivan

PILED HIGHER AND DEEPER by Jorge Cham

To Your Health by S.N.
Solution, page 11

ACROSS
1 Quick-wink connection
4 Money in Argentina
8 Plot surprise
13 Mega celebrity
14 Filly’s foot
15 Southeast Asian capital
16 Highly moral one
19 PR person
20 Downtime
21 Whichever
22 Dakota’s language family
24 Food-additive letters
25 Tendons, skin, etc.
28 Sci-fi staples
32 Work for witches
33 Violinist Rieu
34 Chocolate source
37 Chase game
38 Suit fabric
39 Nutmeg State school
40 Afternoon snooze
42 Pencilant
43 Tropical timber tree
47 Isle in the Irish Sea

48 MidEast capital
49 Tile art
53 One logging in
55 Mummery accessory
56 What the last word of the long answers all sound like
59 Perform OK
60 Savings acct. protector
61 “Really?”
62 Opinion piece
63 Wood strip
64 Bench-press muscle

DOWN
1 Slow tempo
2 Not exactly
3 Taking after
4 Most populous state capital
5 Basically forever
6 Toner ingredient
7 Not up to par
8 Doodled
9 On guard
10 Fascinated by

11 Music genre
12 Oct even with
13 “None for me, thanks”
17 Rantle
18 Porcelain product
19 10s UN leader
20 Made silly faces
21 Substitutes
22 Slow mover
23 Apprehensive
24 Made silly faces
25 “Night and Day” introducer
26 Little leopard
27 Crackerjack
28 Pro’s opponent
29 Drake sound
30 www.aspca_
31 Consult with
32 “Night and Day”
33 L.S.S.
34 “None for me, thanks”
35 Cranky mood
36 Presidents Taylor and Fillmore
37 Blissful
38 Presidents Taylor and Fillmore
39 “None for me, thanks”
40 “None for me, thanks”
41 “None for me, thanks”
42 “None for me, thanks”
43 “None for me, thanks”
44 “None for me, thanks”
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53 One logging in
55 Mummery accessory
56 What the last word of the long answers all sound like
59 Perform OK
60 Savings acct. protector
61 “Really?”
62 Opinion piece
63 Wood strip
64 Bench-press muscle

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Sudoku I
Solution, page 11

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

Sudoku II
Solution, page 11

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

Techdoku I
Solution, page 11

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Instructions: Fill in the grid so that each column and row contains exactly one of the numbers 1–6. Follow the mathematical operations for each box.

Techdoku II
Solution, page 11

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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.
The Tech is looking for interactive graphic designers to join its online media team.

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Gender neutral housing policies:

- Gender neutral housing available for all class years
- Gender neutral housing in all co-ed residences
- Allow romantic couples to live together
- Option to be assigned a gender neutral roommate
- Only offer gender neutral housing for upperclassmen
- Only offer gender neutral housing in certain residences
- Do not allow romantic couples to live together
- Students must specify a gender neutral roommate

Infographic by Will Chapman '13 and Keshika Dharmath Nathan

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 EEH H. Ross ’14, DormCon president.

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.

Gary 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 policies 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.

For more information, email join@tech.mit.edu

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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 chang- es, the preliminary report ad- dresses 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 interac- tions 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 op- portunities 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, visa versa. For example, the task force cited a recent admit from Mongolia, who used edX ex- tensively and received mentor- ship 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 play- list out of songs from different al- bums, they can take this class and that class, and they can go to a lo- cal university and maybe do a lab there, and maybe find a member that becomes their equivalent of a professor there," said Sarma, high- lighting 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. Wilcox suggested that students may be able to spend a semester interning at a company, all while complet- ing MIT classes online.

Future financial model

The sustainability of the In- stitute’s existing financial model cannot be ignored in light of all of the proposed academic possibili- ties. The preliminary report high- lights 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 sig- nificant challenges with the future sustainability of its current reve- nue mix, with constrained federal research dollars, an endowment subject to volatile market condi- tions, 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 endow- ment investments, which together account for $1.25 billion or 56 per- cent of total operating revenues.

Tuition payments from all schools account for 14 percent of yearly revenues, totaling $100 million. The third working group sug- gested many solutions to future risks. Some potential revenue op- portunities cited are expanding summer programs and executive education, and potentially mon- etizing edX. In addition, there is the potential to expand in tech- nological licensing activities. However, many of these oppor- tunities also are "fraught with potential conflicts of interest."

Therefore, according to the re- port, "this risk must be carefully weighed against any benefits from entrepreneurship."

"What I would expect is that we can keep investing back in 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 Insti- tute-wide Task Force on the Fu- ture of MIT Education is expected to be released at the end of the academic year in June 2014.

Leon Lin contributed reporting.

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Solution to Sudoku I

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

Solution to Sudoku II

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Solution to Techdoku I

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

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Solution to Crossword

Senior competes at worlds
Taekwondo athlete competed in Bali on Oct. 31

By Adrian Jimenez-Galindo

MIT has many notable students walking down the infinite people who excel in their own fields, scientists, engineers, and even athletes. This is the case of Michelle W. Chen ‘14, (known as “Machie” to teammates), who competed with Carissa Fu from Boston University and Miyako Yerick from the University of Texas at Austin on Oct. 31 in the eighth World Taekwondo Poomsae Championships in Bali, Indonesia. Poomsae is Korean for forms, a very precise set of prearranged kicks and stances that require considerable amounts of strength, flexibility and precision. Each form has a particular meaning, and can be executed in teams, thus increasing the difficulty by adding the factor of synchronisation.

Chen and her teammates had already won first place this past April at the U.S. National Collegiate Competition, and repeated that feat in July at the U.S. Team Trials, being therefore selected as representatives of the U.S. National Poomsae team for the Female Team Under 29 category. The world championships consisted of four intensive days of poomsae. Seven judges score the performances of the poomsae based on accuracy of moves and presentation (speed and power). For team performances, there is an additional judging criteria in presentation for 14 poomsae. Based on the three competitors are in performing the poomsae. There are 25 different divisions for competition based on gender and age.

Over 600 athletes from 50 different countries competed for 25 medals at the championships and Chen, Fu, and Yerick advanced to the finals after competing against 17 other teams. They trained under the direction of Master Dan Chuang, who had previously competed as an U.S. National Poomsae Team member himself and was selected as one of the five coaches for this year’s team. Together, they managed to beat top caliber teams from countries including Spain, the Netherlands and Brazil, and finished eighth overall. This ranking is the second highest that the U.S. has ever received under this category.

“Overall, I am very satisfied with our performance,” said Chen, who has experienced what it is like to compete at an international level as well as to meet athletes who all love and train in Taekwondo. “It’s been amazing to be able to represent the MIT Sport Taekwondo Club, MIT and the USA at the eighth World Championships. It’s time to train harder for the next competition.” Chen is a Course 6 major at MIT.

MIT basketball team beats Gordon, 67-48

Dawson leads men’s team to victory

By Phil Hess

MIT used an 8-2 run to close out the first half, breaking a close game to help them to a 67-48 victory over Gordon College in men’s basketball action Tuesday night in Rockwell Cage. Paul E. Dawson ’15 set new personal highs with 17 points and eight assists to lead MIT. Hans Mieras gave the Fighting Scots the lead with 10 points and 13 rebounds.

MIT (2-0) took an early 6-2 advantage three minutes in on a put-back by Andrew M. Acker ’15. Gordon (0-3) then held the Engineers scoreless for four minutes and took its first lead of the game when James Ek ’15 drilled a three pointer from the free throw line that started a stretch that saw MIT hit seven of their next nine field goal attempts while holding Gordon to just four shots. The result was a 17-5 run that saw the Engineers expanded their lead to 20 points at 49-29 on a three pointer from Dennis R. Levene ’15 five minutes into the half.

MIT pushed its lead all the way to 25 on a trey from Pedley at the 12:58 mark and the Engineers held their lead over 20 points for the next six minutes. Gordon would never retake the lead. Acker recorded a double-double for MIT with 12 points and 11 rebounds, with Matthew M. Redfield ’15 also recording double figures in the scoring columns for the Engineers with 11 points. The Scots also reached double figures for Gordon, finishing with 10 points the rest of the way.

The contest remained close over the next several minutes, but Gordon would never retake the lead.

MIT Curling beats Villanova in tournament finals

The MIT Curling Club Team emerged victorious at New England’s first curling tournament of the season. The team’s win gives them 8 merit points towards qualification for their season’s National competition in Blaine, MN in March 2014. The tournament featured 14 teams from the Northeast and was hosted by Boston University at the Broomstones Curling Club in Wayland, MA on Nov 9 and 10.

Skip Phillip Nadeau G, vice Sean E. Burchesky ’14, second Andrea Dubin G, and lead Gregorio A. Dooley G, curled their way through a couple of tense early round matches, narrowly defeating RPI and Colgate University, and following up with a semi-final victory against Villanova University. With momentum on their side, MIT met a second Villanova team in the finals and captured the title with a decisive 10-2 win.

—Andrea Dubin

MIT and the USA at the eighth World Championships. It’s time to train harder for the next competition.” Chen is a Course 6 major at MIT.