3.091 experiments with new online learning this semester

Cima makes lecture, recitation attendance mandatory

By Kath Xu
Associate Editor

At first glance, an MIT class without p-sets, exams, or essays sounds almost too good to be true. For 3.091 Professor Michael Cima, it is his semester-long experiment to test whether students learn better when residence-based instruction is combined with online instruction.

According to the 3.091 class website, the online component of the class includes lecture clips and short exercises in the MITx platform to test understanding. The video clips are drawn from past 3.091 lectures, and lecture and recitation formats will remain more or less the same as in previous years. Cima hopes that the online learning sequences will free up class time to take more questions and do more demonstrations this term.

Cima stated that the largest problem that has emerged thus far is the number of upperclassmen who registered for the course without the 3.091, Page 10

Exiting provost speaks on braving funding cuts

Researchers at MIT facing funding troubles due to the federal budget sequester can rely on the Institute for “bridge funding” in the short term but may have to downsize their labs or adjust their research programs in the long term, exiting provost Chris Kaiser said in an interview.

“People are concerned about whether the research they’ve grown up doing — the research program they’ve put together since they were apostcode; or assistant professor — [will] be sustained in the next decade,” he said.

The sequester, a set of sweeping cuts in federal spending that took effect in March, will likely affect basic science research more than any other institution, other than a few that have a large federal contract or a national lab. While MIT has a lot more resources in the bank than almost any other institution, other than a couple of Ivy League schools, MIT is doing in FY 2013, according to the treasurer’s report end of June, 2013. The portion of investment gains not reinvested but forked off to support MIT’s operations amounted to 18.8 percent of the operating revenue, which are used to run the Institute. Research grants and contracts made up half of the operating revenues. Fiscal year 2012 saw MIT’s endowment surpass $3 billion for the first time when it rose to $3.2 billion, which was $28 million more than the same period last year.

The 2013 figures for the other top five endowments were:

- Yale, $30.7 billion
- Stanford, $22 billion
- Harvard, $25.2 billion
- MIT, $10.9 billion

Endowment returns for MIT and other U.S. Universities (National data from NACUBO-Commonfund Study of Endowments)

By Anne Cai
Editor in Chief

Kaiser steps down as provost of MIT

Effective end of October, will return to teaching and research

Chris A. Kaiser PhD ’77 will step down as MIT’s provost at the end of October, President L. Rafael Reif announced yesterday in an email to the MIT community. Kaiser will return to teaching and research as an MIT faculty member.

“Since taking on the role of provost, Chris has served by my side through a challenging period for MIT, and I am grateful for his steady presence and sound advice,” wrote Reif.

“The experience [as provost] has greatly broadened and deepened my understanding of the scholarly work that takes place across MIT,” wrote Kaiser in a letter to the MIT faculty.

In October 2001, Kaiser — then-head of Biology and MIT faculty since 1991 — was selected to run the National Institute of General Medical Sciences (NIGMS), where he would have overseen NIGMS’s $2 billion budget for funding life sciences research. On Apr. 23, 2002, a week before he would have assumed

Kaiser, Page 15

IN SHORT

The Fall Career Fair is in the Johnson Athletic Center on Friday from 10–4 p.m. There are no classes on Friday. Get info on company info sessions at career-fair.mit.edu.

Eric Lander was talking about Reading the Human Genome on Wednesday at 6:30 p.m. at the Sidney-Pacific Mark Multipurpose Room.

Jeff Hoffman, founder of Priceline.com, will be speaking on Oct. 7 at 11:45 a.m. at the Logan Center.

Choose to Reuse will be in Stata this Thursday, 11 a.m. – 1 p.m. Drop-off begins at 8 a.m.

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

Endowment returns for MIT and other U.S. Universities

National data from NACUBO-Commonfund Study of Endowments

HOW DID MIT RANK THIS YEAR?

QS World University Rankings ranked MIT 1st in the world.

NEWS, p. 14

INNOVATIVE STARTUPS

10+ conference was a week of innovation.

CAMPUSS LIFE, p. 11

FREE STUFF, EVERYWHERE!

Free shopping spree Friday! What are you actually supposed to do at Career Fair again? FUN, p. 7

THE INSTITUTE NEEDS A NEW GIRL

MIT needs a computer science requirement to prepare students.

OPINION, p. 4

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Established 1881

tech.mit.edu

THU: 76° Sunny
WED: 70° 53°F Sunny
TUE: 57° 57°F Sunny

WEATHER, p. 3
TUE: 72° 45°F Sunny
12 dead after lone gunman opens fire in Navy Yard cafeteria

By Michael D. Shear and Michael S. Schmidt

WASHINGTON — A former Navy reservist killed at least 12 people Monday in a mass shooting at a naval office building in Washington after he shot his way into the secure military facility, officials said, and then was killed by the police.

Parts of the nation’s capital were put on lockdown in the day after the shooting on the edge of Capitol Hill as the police sought two other armed suspects spotted by video cameras. But by Monday evening, federal authorities said they believed the shooting was the act of a lone gunman.

At Washington’s Navy Yard, the chaos started just after 8 a.m. Civilian employees described a scene of confusion as shots erupted through the hallways of the Naval Sea Systems Command headquarters, on the banks of the Anacostia River a few miles from the White House and about a half-mile from the Capitol.

“I heard three gunshots, pow, pow, pow, straight in a row,” said Patricia Ward, a logistics manager at the cafeteria on the first floor when the shooting started.

“About three seconds later, there were four more gunshots, and all of the people in the cafeteria were panicking, trying to figure out which way we were going to run out.”

Police officers who swarmed the military facility exchanged fire with a gunman later identified by the federal authorities as Aaron Alexis, 34, a former naval reservist from Fort Worth, Texas. Police officers shot and killed Alexis, law enforcement officials said, but not before a dozen people were killed and several others, including a police officer, were injured and taken to local hospitals.

Investigators were still trying to determine how Alexis gained access to the Navy Yard. The site is protected by a high wall, with entry through checkpoints that require official identification. However, under the “force protection status” that was believed to have been in effect early Monday, someone with official access to the site could have driven a car into the parking lot without having the trunk inspected, or could have entered on foot without having a bag searched.

UN report confirms rockets loaded with Sarin in Aug. 21 Syrian attack

By Rick Gladstone and Nick Cumming-Bruce

Rockets armed with the banned chemical nerve agent sarin were used in a mass killing near Damascus, Syria, on Aug. 21, U.N. chemical weapons inspectors reported Monday in the first official confirmation by nonpartisan scientific experts, saying such munitions had been deployed by nonpartisan scientific experts, saying such munitions had been deployed

Though the widely awaited report did not ascribe blame for the attack, it provided in graphic and clinical detail the evidence of sarin residue in three neighborhoods in the Damascus suburb of Ghouta, the precise types of projectiles and trajectories to deliver it and the symptoms of the victims.

Secretary-General Ban Ki-moon called the attack the most horrific use of chemical weapons since Saddam Hussein of Iraq gassed the Kurdish village of Halabja a quarter century ago.

“The report makes for chilling reading,” Ban told a news conference after he delivered the report to the Security Council. “The findings are beyond doubt and beyond the pale. This is a war crime.”

Ban declined to say which side he blamed.

The United States and its allies quickly seized on the volume of evidence in the report to draw the conclusion that only Syrian government forces of President Bashar Assad had the capability to carry out such a strike, calling it validation of their own long-held assertions. But Russia’s ambassador said there were too many unanswered questions to draw such a conclusion.

As Japan recovers, fears that tax increase could halt progress

By Anahad O’connor, The New York Times

Teenagers are exercising more, consuming less sugar and eating more fruits and vegetables, a trend that may be contributing to a leveling off of obesity rates, a new study shows.

The findings suggest that aggressive anti-obesity messages aimed at children may be starting to make a difference, albeit a small one. The study was published in the journal Pediatrics on Monday.

Still, most teenagers were falling short of federal recommendations, which call for children to get at least an hour of physical activity daily, a central message of Michelle Obama’s signature “Let’s Move” campaign. The new data showed that most children engaged in an hour of exercise fewer than five days a week and spent more than two hours a day watching television, chatting online and playing video games.


Turkey says it downed Syrian helicopter in its airspace

By Kareem Fahim, The New York Times

ISTANBUL — Turkey said its fighter planes shot down a Syrian military helicopter on Monday that flew into Turkish airspace, a potentially significant escalation of tensions between the neighbors and former allies, which are now bitterly divided over Syria’s civil war.

Turkish officials said two F-16 warplanes were scrambled in the early afternoon as the Russian-built M-17 helicopter approached Turkey’s southern border. The helicopter’s crew was repeatedly warned by radio and did not turn back, the officials said. At 2:25 p.m., when the helicopter had strayed roughly a mile across the border, the jets fired on it, the officials said, and it crashed to the ground in Syria.

“No one, from now on, will dare to violate Turkish borders in any way,” the Turkish foreign minister, Ahmed Davutoglu, told reporters.

—Kareem Fahim, The New York Times

Japan is on a roll. Its economy is growing at a robust 3.8 percent, the stock market is up by 40 percent this year, and the country is on the cusp of overcoming 15 years of deflation. Adding to the positive trend, Tokyo just won its bid to host the 2020 Summer Olympics, raising hopes of an investment and construction boom.

What could possibly go wrong? A plan to raise taxes at the worst conceivable moment, economists warned.

“It’s nonsense. Japan is only midway to recovery and hasn’t fully escaped deflation,” said Goushi Katada, chief economist at Mitsubishi UFJ Research & Consulting, which is affiliated with Japan’s largest bank, Mitsubishi UFJ Financial Group.

—Hiroko Tabuchi, The New York Times

Teenagers are shifting food habits

By Hiroko Tabuchi, The New York Times

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Tuesday, September 17, 2013

CHRYSLER INTERNSHIPS & FULL-TIME OPPORTUNITIES

Information Session: Thursday, Sept 19th

If you are interested in joining Chrysler, it is highly recommended that you attend one of the information sessions.

• Hear first-hand experiences from M.I.T. alumni, important contributors in developing Chrysler’s alternative propulsion and autonomous systems
• Vehicle on display outside Student Center
• Make a personal connection with the recruting team - let us get to know you!

Thur., Sept 19th

9:00 AM Room #51-057

Additional Information Session through Sloan School on Wed., Sept. 18th at 11:45 am. 9:45 AM, RSVP ON CAREER CENTRAL

Further information can be found through Chrysler’s on-campus recruiting portal.
Spain on track to meet budget targets, emerge from recession

By Raphael Minder

SPAIN: Spain is on track to meet the 2013 budget deficit target it agreed on with its European Union partners, officials said Monday, as rescuers wait for fog to clear out.

More rain expected in as Colorado targets, emerge from recession

The Madrid government has forecast that Spain's economy would grow 0.5 percent in 2014 after contracting by 1.3 percent this year.

De Guindos said that the government would be looking at the 2014 fiscal framework when it was passed in the autumn.

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United States ranks 11th in plague cases worldwide

The United States now ranks 11th in the world for plague, according to a new survey of the disease.

WASHINGTON — The Russian-American deal to destroy Syria's chemical weapons arsenal gives President Barack Obama some breathing space after a politically damaging few weeks.

The cold front that brought yesterday's morning showers has departed to our east, and in its wake has come a strong high pressure system that will take control of our weather for the re-

More rain expected in as Colorado targets, emerge from recession

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Extended Forecast

Today: Sunny, high in the mid 70s°F (24°C).

Tuesday: Sunny, high in the mid 70s°F (24°C).

Wednesday: Sunny, high in the mid 70s°F (24°C).

Thursday: Sunny, high in the mid 70s°F (24°C).

Friday: Sunny, high in the mid 70s°F (24°C).

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The cold front that brought yesterday's morning showers has departed to our east, and in its wake has come a strong high pressure system that will take control of our weather for the re-
MIT needs computer science requirement

By Feras Saad

Programming lies at the heart of a modern education. Whether it relates to engineering, finance, or even the arts and humanities, computation is used across all fields to achieve what was once unimaginable: yet, despite its ever-increasing prominence in industry and research, MIT has not instituted introductory computer science as a General Institute Requirement (GIR).

I find surprising that a good number of students graduate from MIT without any kind of programming experience. I have found that those who have failed with coding often strongly feel about keeping it that way. “Why would you burden me, a student in English Literature, by wasting my time to learn programming?” I am often asked with passionate defiance.

Here is why. A few nights ago, a friend of mine spent hours manually filtering and copying data from an enormous, disorganized, online database into an excel sheet to perform calculations. After watching his frustration grow exponentially with the number of rows in the sheet, I offered a slight intrusion: a 20-line VBA script that automated this exhaustive task. Upon seeing this in action, his eyes light up with fascination and intricate. “Teach me!” he exclaimed.

Exaggerated anecdotes aside, it is fair to say that the current lineup of GIRs, which include mathematics, physics, chemistry, and biology, are completely left out in the traditional academic sense. Few could argue, however, that in our typical computer-centric lives, drawing the Lewis structure of ammonium sulfite is of more practical benefit than knowing how to write programs that make everyday tasks simpler to solve.

What is really needed is a full-blown introductory computer science course for incoming freshmen.

MIT is investing extraordinary effort in re-defining the education of the future, but the focus thus far has been the online platform. This vision should also include a serious reconsideration of which skills are critical to students of the 21st century — both on and off campus. Several courses outside of EECS do integrate programming technologies like MATLAB into class material and problem sets. Unfortunately, they can only offer ad-hoc tutorials for the specific applications at hand, which do not help in developing the intuition and problem solving skills of a computer scientist. The same applies to the many CS-related IAP classes.

What is really needed is a full-blown introductory course for forthcoming freshmen.

There already exists two fantastic computer science classes, 1.00 and 6.00, that attract a wide range of technical and non-technical students from across the institute. In contrast to attitudes toward other GIRs, many perceive to be a waste of time, many students feel genuinely satisfied after taking these classes, especially those who may never write code again in a professional context.

Are there administrative hurdles to be considered? Of course! I have been told that some years ago, an academic panel tasked with updating the GIRs proposed computer science, as well as probability and statistics, as potential additions. While the proposal went as far as to obtain a majority vote, it was ultimately rejected due to fears of over-burderning the already intensive academic life of MIT undergraduates. Furthermore, each department felt very strongly about preserving its own requirement, making a compromise impossible. Hiding behind the argument of “too many requirements” is neither realistic nor particularly convincing. I do agree that all the GIRs are important for a well-rounded academic experience, but it should be kept in mind that a large proportion of students have credit or AP out at least one GIR. Perhaps many more are already agile at coding.

The power of programming extends deep into the personal and professional world. It is time for MIT to ensure that its future graduates will all be able to tap into this power.
Sudoku
Solution, page 14

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.

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Techdoku
Solution, page 14

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.

120x
12x
2x

1−
6x
12x

15x
90x

48x
50x

8+ 3
9+ 2

[1263] Reassuring

A webcomic of romance, sarcasm, math, and language
by Randall Munroe

Reassuring

At least humans are better at quietly amusing ourselves, oblivious to our pending obsolescence, thought the human, as a nearby Dell Inspiron contentedly displayed the same bouncing geometric shape screensaver it had been running for years.
Saturday Stumper by Anna Stiga

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.
Sometimes on the Search for Meaning by Letitia Li

Dearily Beloved, we gather here today to join this couple in holy matrimony, which is commanded to be honorable among all men.

and quickly, because campus security is coming.

and therefore is not to be entered unadvisedly or lightly.

but reverently, discreetly, advisedly, solemnly.

Q.E.D. (QUITE EASILY DONE) by Erika Trent

4 REASONS TO GO TO CAREER FAIR

1. PACK YOUR WARDROBE WITH FREE T-SHIRTS!

WEAR:

GET:

2. STOCK UP ON FREE OFFICE SUPPLIES!

3. SATISFY YOUR DATA STORAGE NEEDS FOR FREE!

4. ADVANCE YOUR CAREER - THAT, TOO!

Are you gonna to the seminar?
There's free coffee!

Sure, it's free but what about quality?
May be a lonely grand student but I have standards when it comes to coffee!

Just because it was campaigns and I don't have to pay for it, it doesn't mean I'll drink it. Who's the speaker anyway?

43 Be an omen of
46 Poker player's calculation
47 Poker player's phrase
48 Annual celebration
51 Sudden surge
52 Horse laugh
55 Ventricle outlet
59 Swiss abstractionist
60 Sluggish
61 Erstwhile Pan Am rival
62 Female octopus
63 Well put

Canines by S.N.

Solution, page 14

ACROSS
1 Cake Boss airer
2 Flow away
3 Cardinal point
4 Flow away
5 Man-cave music maker
6 Cardinal point
14 Blade in the water
15 Mimicking
16 Utterly foolish
17 Student-focused org.
18 Cousteau craft
19 Annoyed
20 Typist’s tap
21 Light bite
22 Power, to Francis Bacon
26 Spirit of ’76 instrument
27 NASDAQ debut
28 Slow pitch
29 Fountain fare
30 Isolate, due to a blizzard
32 Earth Day org.
33 Special skill
34 Niece or aunt
35 Bluetooth alternative
36 Slow pitch
37 Most considerate
38 Carol
39 Forensic ID
40 Piece of statuary
41 Tablet software
43 Be an omen of
44 Zilch
45 Driver’s invitation
46 Poker player’s calculation
47 Poker player’s phrase
48 Annual celebration
49 Dust-jacket feature
50 Seasoned sailor
51 Sudden surge
52 Horse laugh
53 Climbed
54 Spread out
55 Ventricle outlet
56 Safari sighting
57 Bottle one’s anger
58 Likewise
59 Out of whack
60 Sluggish
61 Heat-retaining
62 Female octopus
63 Well put

DOWN
1 First sergeant, informally
2 Subsequently
3 Silly Putty owner
4 Cardinal point
5 Says without thinking
6 Boor
7 Agatha sleuth
8 Try out
9 Cosy playful
10 Walk right in
11 Duplex descriptor
12 Till bill
13 Struck (out)
14 Zilch
15 Driver’s invitation
16 Utterly foolish
17 Student-focused org.
18 Cousteau craft
19 Annoyed
20 Typist’s tap
21 Light bite
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61 Heat-retaining
62 Female octopus
63 Well put
Hello, we’re **Hudson River Trading**. Give us a few **nanoseconds** and you’ll be hooked. We are **MIT**, Harvard, Carnegie Mellon, Stanford, and more. We are bachelors, masters and PhDs; **physicists & statisticians, engineers & mathematicians**. At HRT, responsibility is **distributed** according to individual impact, so a **systems engineer** will spend every day working on challenging **computer science** problems. Become an **algo developer** and you might find yourself looking at **massive** amounts of market **data** and using a variety of tools to come up with **complex** strategies. If you are a **hacker** who wants to work in a **powerful computing** environment, we want **programmers** who can **reduce latency** and increase throughput, in a place where every second counts. And don’t be fooled – we’re not a typical finance company; our **coders** are the most important investment we have – and they know it. It’s no secret that your **compensation** will be **high** and you will be rewarded based on performance. Unlike other firms, our developers work in **parallel** with algo, because we know **programming skills** are a major part of what makes us **successful**. We know you might think we’re a bunch of suits, but that’s simply not true. We’re **geeks who use FreeBSD**, and even have **kernel committers** on staff. So, if you’re thinking about going to Silicon Valley to work for a **tech company**, remember that’s what we are and more: **grub-loving, foosball-playing, challenge-seeking problem solvers**. **Sound like you too?** **we HRT you <3**

**WE’RE HIRING!**
Algo developers, core developers and more.

HRT will be on campus for the fall career fair on September 20th and for an info session on September 18th at 6 pm, Room 5-234.

For more information visit: [www.hudson-trading.com/careers](http://www.hudson-trading.com/careers)
Weekly questions replace exams

Student response to new 3.091 assessment system mixed

3.091, from Page 1

intention of attending lectures. He said that they had scheduled other classes during 3.091’s lecture times and planned to just take the assessments to pass the class.

In response, Cima said he had to re-huntly implement mandatory recita-
tion and lecture attendance. Students must now attend at least 80 percent of lectures and 80 percent of recitations. In an email sent to the class last Friday, Cima wrote that students will now have to swipe their MIT ID in one of several card readers that will be placed outside of the lecture hall starting with Friday’s lecture.

“My first concern is the integrity of the experiment,” explained Cima in an email to The Tech. “The objective is to compare the combination of online and residence-based instruction to res-
idence-based alone. A large cohort only doing online assessment would com-
promise the interpretation of outcomes.

Secondly, I do not have permission to give GIR credit for a totally online course. That must remain的模样, but my guidelines do not include this scenario.”

Two students, Rachel M. Nations ’14 and Miren Bamforth ’15, said that they prefer more flexibility when it comes to lecture attendance.

“Between going to lecture and reci-
tation and the assessments at night, I don’t really use the online portion since I feel like I’ve already devoted more time to that than I would like to a subject outside of my major,” Bamforth pointed out. “If lectures weren’t mandatory, I would use the online material, and, in my opinion, learn more material more thoroughly. The online material is more flexible in-
towards different learning styles.”

In addition to having to attend lec-
ture, instead of taking traditional pen-
and-paper exams, students in this se-
mester’s Introduction to Solid State Chemistry class must pass at least 27 of 37 assessments online, which consist of a single problem each. These assess-
ments are taken in a teaching assistant-
proctored environment, and span all 14 units of the semester.

Although students can retake an as-
essment as many times as they wish, there is a 24-hour lockout period be-
tween attempts. An Athena cluster is reserved in the evening most days for students to come in and complete the assessments.

Students must now attend at least 80 percent of lectures and 80 percent of recitations.

“The idea of having assessments like this is a good one but it is still in the early stages of implementation,” Bam-
forth remarked. “Usually it is noisy and crowded in the assessment room. I am fine with this type of assessment for a GIR [General Institutional Require-
ment] that is not relevant to my course of study, but I wouldn’t want to have as-
sessments like this for the classes in my major; I’d rather have to sit down and make sure everything is cemented in my brain for an exam than to try to add in little pieces constantly.”

On the other hand, Nations said that the new assessment system heavily in-
fluenced her decision to take 3.091 this semester. “The idea of no p-sets, quiz-
zes, or long exams definitely appealed to me as well as did the flexibility and chance to work at your own pace that the whole system afforded. ”

Nations said that she dropped 3.091 last semester because “the teach-
ing style didn’t really work [for me] ... and so the online system was very appealing.”

According to Kunal Mukherjee G, a 3.091 TA, a few bugs in the code have been found, but “the students have been surprisingly cooperative thus far, in that they weren’t upset when it messed up their test experience.”

Mukherjee continued, “We think we need a better system to answer ques-
tions that students have right after the (assessment) and are working towards this aim. Currently this is supposed to happen in the examination area but it’s not possible to do this effectively during busy hours when there are lines of stu-
dents waiting to take the exam.”

The changes have affected not just students, but TAs as well, who now have to proctor the online assessment sessions.

“I was a TA last year and the respon-
sibilities have changed slightly,” ex-
plained TA William F. Dickson ’13. “This year, the office hours are combined with the proctoring sessions, and each TA is required to proctor one session (3 hours) each week. The biggest dif-
ference is the learning curve associated with troubleshooting the software and bugs in the code.”

Although this version of 3.091 is cur-
rently only set to last for one term, it is possible that this version of the class will be repeated in the future. Cima noted that a report will be made in the spring on the results of this term’s 3.091 class. Depending on the outcomes, the Com-
mittee on the Undergraduate Program (CUP) might approve another run of this class. I think that the idea is a very pro-
gressive concept for education in gener-
al,” stated Dickson. “This entire process may end up being the ‘MIT-sanctioned’ proof-of-concept for online education. MIT’s taking a large risk in approving this class in the first place, because the repercussions of a successful run could mean an entirely new approach to edu-
cation by universities.”

William Nazarov contributed reporting.
A week of innovation
t=0 conference features startups solving the world’s problems

By Victoria Young

Robotic cheetahs, body-heat fueled technology, camer- as that operate at the speed of light, and a potential cure for HIV: This compilation of fascinating topics at the cutting edge of research led the conversation at MIT’s t=0 week.

Students filled rooms until it was standing room only as some of MIT’s leading professors presented state-of-the-art technologies, ideas, and businesses during this week to kick-off entrepreneurship at MIT.

The week of t=0 culminated in a weekend-long hackathon where students worked together to build companies.

t=0 stands for “the time is now.” It’s a concentrated week jam-packed with innovation and entrepreneurship, hosted by the Martin Center for Entrepreneurship at MIT. t=0 was inspired by MIT alumni who have started companies and report the same thing over and over: “I wish we started sooner while at MIT.” The goal of t=0 is to help all MIT stu- dents kick off the year with cross-campus collaboration and accelerated idea generation.

Some of MIT’s leading professors presented state-of-the-art topics for the Arts, including the latest in digital and social trends.

Tuesday: Digital and Software Night

How fast can you visualize the world? How about at one trillion frames per second? MIT Media Lab’s Professor Ra- mesh Raskar invented a camera that moves nearly as fast as light itself and kicked off Digital and Software Night. Pro- fessor Erik Brynjolfsson of Information Technology and the Director of the MIT Center for Digital Business discussed how to create shared prosperity by racing with machines instead of against them.

Trends in student startups in the digital area fell into the following categories:

• Streaming data: Everyone is suffering from informa- tion overload these days, and a host of MIT startups are looking to fix that problem with intelligent interfaces that make it easier for users to find the information they need when they need it. Geosocial is a service that lets you keep up with the real world. Users can share, upvote, and discuss important activities with anyone in a community.

• Collaboration tools: To boost sharing in knowledge, photography, and video, several MIT startups are developing specific solutions for user needs. For ex- ample, Ghip is a unique picture-messaging platform whose mission is to democratize creativity by giving regular consumers access to high-quality visual design customized for their words, message or expression.

Wednesday: Hardware and Device Night

Hardware and Device Night kicked off with Professor Anantha Chandrakasan, the mastermind running EECs, the largest course at MIT. Innovator of MIT’s Robotic Cheetah and designer of the 1st legged, grass wall-climb- ing robot, Professor Sangbae Kim showed students the strategic efficiency behind his inventions.

Student startups in hardware varied in subject. NYbots offers a simple to use 3D printer and cloud interface that enables 24/7 printing, remote control from any device, and easy sharing between many users. In an en- tirely different realm, AvaTech develops state-of-the-art, proactive avalanche safety devices that help backcountry adventurers and professionals avoid life-threatening avalanches.

Thursday: Healthcare Innovation Night

MIT Assistant Professor of Chemical Engineering, Christopher Love inspired students on Thursday night by presenting the complex problem of finding more efficient ways of getting treatments to patients as well as encour- aged students to discover ways of improving drug discov- ery and development. Meanwhile, investor, co-founder, and board member of three venture-funded companies Professor Hart discussed the process of becoming an en- trepreneur and the development of a 3D scanner that will streamline the generation of earphones and hearing aids by more accurately fitting them to the dimensions of the ear canal.

Students then had the treat of hearing from several lo- cal physicians. Dr. Sachin Jain from the Merck Institute challenged students to find ways to promote medication adherence, given the detrimental impact it has on pa- tients. Dr. Michael Docktor, who specializes in pediat- rics and is on the executive team of Hacking Pediatrics, discussed the frustration and inefficiencies doctors face with the lack of digital software solutions for streamlin- ing their practices. Students broke off into teams to ideate and brainstorm around these pain points.

The week of t=0 culminated in a weekend long hack- athon where students worked together to build com- panies and hack together prototypes of their products. Having just joined the MIT community a few weeks ago, I felt inspired by the breadth of innovation across campus. Even more inspiring was how incredibly down-to-earth, accessible, humble, and collaborative everyone was at each of these events as people from across courses mingled and learned about each other’s backgrounds and interests. To me, t=0 was the perfect way to kick off the semester at MIT and expose me to a variety of exciting ideas and people at a rigorous MIT pace.
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THE STRENGTH TO HEAL and learn lessons in courage.

Demolition of building next to Random will start within a week

Work is now underway for Random Hall’s future neighbor. The building, to be developed by Forest City Enterprises, will serve as research and office space for Millennium Pharmaceuticals and will include more than 15,000 square feet of retail space facing the street on Massachusetts Avenue.

According to Peter Calkins, the Executive Vice President and Chief Operating Officer at Forest City, demolition of the existing building on 300 Mass Ave block will start within a week. Forest City is currently working on cutting and capping the old structures’ connections to the city’s utilities infrastructure.

“We are proceeding according to the plan,” said Peter Calkins in a phone interview with The Tech. Calkins indicated that Forest City will start to lay the foundation for the new complex in November 2013, and the entire project will be completed by the end of 2015 or early 2016.

There will only be a five-inch-gap between the new building and Random Hall, but Calkins reiterated that Forest City’s work will not require residents to move out.

In a meeting with Random Hall residents on September 5, Senior Associate Dean for Residential Life and Dining Henry Humphreys pointed out Forest City’s track record of minimizing impact on its project neighbors. He said Forest City “worked next to [a museum] while maintaining the exhibits” and “was tearing down a building next to a chocolate store, and the store didn’t lose a single day of business.”

There is not yet direct communication set up between Random residents and Forest City, but Calkins said Forest City is working on an online platform for direct communications. According to Sarah McDonnell from MIT News Office, students can communicate their thoughts or concerns through the area director for Random Hall, Michael Barcelo, who can be reached at mbarcelo@mit.edu or (617) 448-5705.

—Xin Chen

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Beginner’s Nights @7:30: Oct. 2 & 9, Sala

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**Monday, September 16**

<table>
<thead>
<tr>
<th>Company</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyetresta</td>
<td>12–1 P.M.</td>
<td>20 Chimneys</td>
</tr>
<tr>
<td>Acquia</td>
<td>1–2 P.M.</td>
<td>Mezzanine Lounge</td>
</tr>
<tr>
<td>Procter and Gamble</td>
<td>6:30–7:30 P.M.</td>
<td>32-155</td>
</tr>
<tr>
<td>Shell</td>
<td>7–8 P.M.</td>
<td>32-141</td>
</tr>
<tr>
<td>Yext</td>
<td>7–8 P.M.</td>
<td>4-149</td>
</tr>
<tr>
<td>Bank of America</td>
<td>7:30–8:30 P.M.</td>
<td>4-231</td>
</tr>
<tr>
<td>Vecna</td>
<td>7:30–8:30 P.M.</td>
<td>6-120</td>
</tr>
<tr>
<td>Stripe</td>
<td>8–9 P.M.</td>
<td>3-333</td>
</tr>
</tbody>
</table>

**Tuesday, September 17**

<table>
<thead>
<tr>
<th>Company</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tessa</td>
<td>12–1 P.M.</td>
<td>20 Chimneys</td>
</tr>
<tr>
<td>B-Line Medical</td>
<td>1–2 P.M.</td>
<td>Mezzanine Lounge</td>
</tr>
<tr>
<td>MOTU</td>
<td>6–7 P.M.</td>
<td>32-124</td>
</tr>
<tr>
<td>Bridgewater Associates</td>
<td>6:30–7:30 P.M.</td>
<td>32-144</td>
</tr>
<tr>
<td>Saudi Aramco</td>
<td>6:30–7:30 P.M.</td>
<td>1-130</td>
</tr>
<tr>
<td>Athenahealth</td>
<td>7–8 P.M.</td>
<td>4-231</td>
</tr>
<tr>
<td>Facebook</td>
<td>8–9 P.M.</td>
<td>6-120</td>
</tr>
</tbody>
</table>

**Wednesday, September 18**

<table>
<thead>
<tr>
<th>Company</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chevron</td>
<td>12–1 P.M.</td>
<td>20 Chimneys</td>
</tr>
<tr>
<td>Data and Technology Panel: Mediamath, Memsql, State Farm Insurance</td>
<td>5:30–6:30 P.M.</td>
<td>4-149</td>
</tr>
<tr>
<td>Communications Media Advisors</td>
<td>5:30–6:30 P.M.</td>
<td>1-242</td>
</tr>
<tr>
<td>Vivint</td>
<td>5:30–6:30 P.M.</td>
<td>1-246</td>
</tr>
<tr>
<td>Yelp</td>
<td>6–7 P.M.</td>
<td>4-153</td>
</tr>
<tr>
<td>Hudson River Trading</td>
<td>6–7 P.M.</td>
<td>5-234</td>
</tr>
<tr>
<td>Gameoft</td>
<td>6–7 P.M.</td>
<td>1-135</td>
</tr>
<tr>
<td>Palantir</td>
<td>7–8 P.M.</td>
<td>32-141</td>
</tr>
<tr>
<td>ExxomMobil</td>
<td>7–8 P.M.</td>
<td>32-155</td>
</tr>
<tr>
<td>Healthcare Panel: Counsil, Intersystem Corporation, Nuance</td>
<td>7–8 P.M.</td>
<td>3-133</td>
</tr>
<tr>
<td>IT &amp; Technology Panel: AppDynamics, Direct TV, Intel, Leaf</td>
<td>8–9 P.M.</td>
<td>6-120</td>
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</table>

**Thursday, September 19**

<table>
<thead>
<tr>
<th>Company</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evernote</td>
<td>12–1 P.M.</td>
<td>Coffeehouse Lounge</td>
</tr>
<tr>
<td>Startup Panel: AdHarmonics, IFTTT, Levant Power, Pislee, Segment.io, Shapeways</td>
<td>2:30–3:30 P.M.</td>
<td>Mezzanine Lounge</td>
</tr>
<tr>
<td>Software and Security Panel: Applan, Broadway Technology, NSA, Raytheon BBN Technologies</td>
<td>5:30–6:30 P.M.</td>
<td>66-144</td>
</tr>
<tr>
<td>Central Intelligence Agency</td>
<td>6–7 P.M.</td>
<td>5-134</td>
</tr>
<tr>
<td>Sequoia Capital</td>
<td>6–7 P.M.</td>
<td>1-135</td>
</tr>
<tr>
<td>Cisco SF (Meraki)</td>
<td>6–7 P.M.</td>
<td>5-234</td>
</tr>
<tr>
<td>Box</td>
<td>7–8 P.M.</td>
<td>26-168</td>
</tr>
<tr>
<td>Bloomberg</td>
<td>7–8 P.M.</td>
<td>26-302</td>
</tr>
<tr>
<td>Schlumberger</td>
<td>7–8 P.M.</td>
<td>26-322</td>
</tr>
<tr>
<td>Network/Mobile Panel: Cisco Systems, Crittercism, Pocket Gems, Twitter</td>
<td>7:30–8:30 P.M.</td>
<td>32-141</td>
</tr>
<tr>
<td>Finance Panel: Allston Trading, Five Rings Capital, Jane Street, Susquehanna International Group</td>
<td>7:30–8:30 P.M.</td>
<td>32-155</td>
</tr>
<tr>
<td>Kick-off Reception (Exclusive to Career Fair volunteers)</td>
<td>8–10 P.M.</td>
<td>Mezzanine Lounge</td>
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</tbody>
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**Friday, September 20**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Career Fair</td>
<td>10 A.M.–4 P.M.</td>
<td>Johnson Athletic Center, Rockwell Cage</td>
</tr>
<tr>
<td>SWE Networking Banquet</td>
<td>7–9 P.M.</td>
<td>Hyatt Regency</td>
</tr>
</tbody>
</table>

**Saturday, September 21**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus Interviews</td>
<td>9 A.M.–5 P.M.</td>
<td>Student Center</td>
</tr>
<tr>
<td>Networking Luncheon</td>
<td>12:30–2 P.M.</td>
<td>Student Center</td>
</tr>
</tbody>
</table>
MIT topped the QS World University Ranking for the second year in a row, but fell to seventh in the US News & World Report National ranking for 2013-2014. At the graduate level, MIT remains ranked first in most engineering subjects.

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Kaiser to return to teaching, research

Addressed Kendall, edX as provost

Kaiser, from Page 1

the position, he withdrew from being chief of NIGMS. About two months later, Kaiser assumed the role of provost as his predecessor — Bert, who served as provost for seven years — became president.

In his announcement yesterday, Bert thanked Kaiser especially for his leadership in “developing a working consensus on MIT’s plans” with the Kendall Square zoning petition.

“The faculty really felt that they hadn’t been adequately consulted,” said Kaiser in an interview with The Tech. “Most faculty really had no idea what the plan [for the Kendall area development actually was].” As such, the faculty “weren’t necessarily opposed to the project per se, but they were opposed to moving ahead without the project being clearly understood or clearly vetted by the faculty.”

“Reactivating my lab is a big deal for me. It’s my first passion.”

Chris A. Kaiser PhD ’87
MIT Provost

To address faculty concerns with the Kendall area development, Kaiser set up a task force. However, “the task force [produced] a useful report, but there was never a full and open discussion of the whole faculty,” said Biology Profesor Jonathan A. King, chair of the Faculty Newsletter editorial board who has been a vocal critic of faculty non-involvement. “I certainly hope the next provost recognizes that the faculty are stakeholders in the actual future of the campus, and that radical actions like placing large office buildings in the heart of east campus would be much more acceptable if they were opposed to moving ahead without the project being clearly understood or clearly vetted by the faculty.”

Sequester, from Page 1

credibly well.

But because departments may be affected unevenly, a small dip in MIT’s overall federal funding could translate to tough choices for some faculty members, Kaiser said.

MIT will help cover facilities and administrative (F&A) costs, also known as overhead, Kaiser said. He said that this would help faculty apply for grants from non-federal sources like foundations that do not cover the 56 cents of F&A per dollar of direct funding that MIT requires.

These measures and others are intended to help affected labs transition to times when funding will be harder to obtain. The affected labs may have to either shrink or “redirect basic research to applied research” in order to more easily justify funding. Support from MIT would give students and staff time to find new jobs, if necessary.

“That readjustment period is a very vulnerable period,” Kaiser said. “It’s very painful to write layoff notices.”

—Leon Lin
Women’s tennis begins season with a 2-0 start

MIT Taekwondo places in the top 3 nationally

Women’s C1 Sparring team earns gold; Men’s A1 team reaches finals against Cornell

MIT’s Michelle W. Chen ’14 competes for the MIT Sport Taekwondo club team.

The first two matches went to sets with each squad getting a win.

Women’s volleyball beat Bates College Friday night 3-0.

**SPORTS**

**By Phil Hess**  
**SPORTS REPRESENTATIVE**

The Tech Tuesday, September 17, 2013

The MIT Sport Taekwondo Club competed in this year’s National Collegiate Taekwondo Association (NCTA) Championships, and placed top three in the Overall, Novice and Championship (Black Belt) divisions in a series of tough matches that put the team’s skills to the test. Additionally, the team managed to put forth stellar performances at Rensselaer Polytechnic Institute Tournament (RPI) in NY, coming only second to Cornell in the Division I results out of over 15 schools.

The Olympic Training Center in Colorado Springs saw fierce battles in every skill level.

The MIT Sport Taekwondo Club team.

Regarding the NCTA Championships, the Olympic Training Center in Colorado Springs saw fierce battles in every single belt (skill) level, which culminated in four medals in the yellow belt division: gold for Karine Yuki ’13, and bronze for Tiffany and Stephanie Chen. In the black belt category, gold went to Michelle Chen ’14, Miyako Yerick (U. Texas Austin) and Carissa Fu (Boston U.) in the team trials divisions, and gold for Michelle Chen, Erika Lee and Hilary Nacno, bronze for Lori Ling, Kristina Lozoya ’13, Tara Sarathi G, Matt Weinberg, Andrew Mandelbaum G and Dan Stalworth ’14 in the championship division.

Chen, Yerick, and Fu would go on to represent the United States in August, visiting South Korea to train with their university counterparts in a National Collegiate Taekwondo Team Training Camp. RPI, which happened a week after the NCTA championships, was slightly different. It had been, in the words of Head Instructor Daniel Chuang, “a trying week.” With the unfortunate events surrounding the Boston Marathon, the lockdown of campus, and the fact that there were two major tournaments one after the other, all in one week’s time, it was just amazing to see the dedication that the team put into it.

Master Chuang said that he was “very proud of how the team held together ... I think that the team performed exceedingly well and managed to still have a very close match at winning the cup. For yet another season, it seemed to have gone down to just a few close matches/poomsae [forms].”

Indeed, it shows the team’s excellence was proven over and over again. Michelle Chen, Tam Nguyen, and Isaac Fenta obtained three in the Overall, Novice and Championship (Black Belt) divisions in a series of really close matches/poomsae [forms].”

The sparring matches were intense, to say the least: the Women’s C1 (beginner) team, comprised of Jean Chow, Jackie Wu ’16, Margaret Okito ’16, and Yang Dai as alternate, earned gold. The Men’s B2 (intermediate) team, with Kevin Hu ’14, Brandon Baker G and Shapagat Redjebek ’15 got bronze after a series of really close matches against Tufts, Vermont, and Cornell.

Both Women’s and Men’s A1 (advanced) teams got silver, and the matches can be considered as some of the most memorable of the season.

The Men’s A1 team (Matt Weinberg, Aziz Abbadellah G and Daniel Stalworth) fought in the finals against Cornell, where it all came down to the middle weight’s fight after losing in lightweight and winning in heavy. Both fighters were tired, and so the match was an essentially offensive battle that ended 18-13 in Cornell’s favor — not before Dan Stalworth put some amazing flying side kicks into the match. Similarly, the Women’s A1 team (Shan He G, Michelle Chen and Kristina Lozoya) also faced Cornell on the finals, where it ended with a very tactical match with triple overtime for Kristina Lozoya. Unfortunately, her adversary prevailed and so the silver went for MIT.

Overall, the tournaments were a very fun and rewarding experience with many accomplishments. However, the best part is that there is always room for improvement, and the team knows that training hard will pay off in this year’s tournaments and championships.

**By Adrian Jimenez-Galindo**  
**CLUB SPORT REPRESENTATIVE**

The club attended the national competition in Colorado last semester where they won second place overall.

Women’s tennis begins season with a 2-0 start

Engineers win 6-3 over Wellesley College in their first road match of the new year

Women’s and Men’s Athletic Clubs celebrate the season opening with a bang.

Playing on the road for the first time this season, the MIT women’s tennis team made it a two-for-two on the young season as it took a 6-3 win at Wellesley College in a New England Women’s and Men’s Athletic Conference match. Victoria Tam ’16 and Elsa M. Kohrs ’16 each won in singles and doubles for the Engineers.

Michelle M. Dutt ’15 and Krystal Y. Lai ’14 picked up the first point for MIT (2-0, 6-2, 2-0 NEWMAC) with an 8-3 decision over Kendall A. and Samantha Stone at No. 3 doubles. Tam and Kohrs got the same result at No. 2 before the No. 1 Wellesley team of Soong Lee and Catina Chen got by Lauren C. Quisenberry ’14 and Julia C. Hsu ’14, 3-6, 6-2, 6-1 to put the first point on the board for the Blue.

Wendi J. Kong ’17 picked up another point in singles play for MIT when she took a 6-1, 6-3 decision over Tada at No. 4. Wellesley (3-1, 2-0 NEWMAC) picked up its second point in the No. 3 match where Andjela Stanovic defeated Lai, 6-4, 6-1. The Engineers then clinched the match with victories in the Nos. 1 and 4 matches. At No. 4 Tam took a 6-2, 6-2 win over Lina Ye and Quisenberry took the deciding point at No. 1 with a 6-3, 6-3 triumph over Lee.

The final two matches went to sets with each squad picking up a win. For MIT it was Kohrs that came back from a second set setback to score a 6-1, 3-6, 6-1 win over Chen at No. 2. At No. 6 Dutt took the first set in her contest with Stone, but eventually fell by a 2-6, 6-4, 7-5 score.

MIT will be back in NEWMAC action tomorrow when it hosts Springfield College at 1:00 p.m. Wellesley will play again on Sept. 18 when it hosts Mount Holyoke College at 5 p.m.