Facebook, Zuckerberg “like” MIT
Facebook CEO touts company to packed 26-100

By Ethan A. Solomon

Facebook co-founder and CEO Mark Zuckerberg swung by MIT yesterday to tell a packed 26-100 about Facebook’s corporate culture, what it’s like working in Silicon Valley, and — not surprisingly — why MIT students would make good Facebook engineers.

Zuckerberg’s talk, which took the form of a moderated discussion with Chancellor Eric Grimson and Facebook Vice President of Engineering Mike Schroepfer, was not open to the media, but I got a ticket through the lottery process. According to Grimson, over 2,600 students signed up to win one of over 200 seats. Zuckerberg also made a brief appearance for the media outside Lobby 10 just prior to the talk (see sidebar).

Though never explicitly stated, Zuckerberg’s appearance here was an unannounced recruiting event. Zuckerberg and Schroepfer peppered the conversation with praise of MIT students’ entrepreneurial spirit and drew parallels between Facebook’s corporate culture and that of MIT.

“You gotta love what you’re doing” to be a good Facebook engineer, Schroepfer said. “We like people who like to get stuff done.”

And when asked by the Chancellor as to what kind of talent the social networking company is looking for, Zuckerberg put it simply: a core Facebook value is a “focus on impact.”

With a user base of 800 million, said Zuckerberg, and a relatively small number of engineers, Facebook is in a “sweet spot” where the “impact” from each engineer is high compared to other technology firms.

“Working at Facebook is the one job you don’t get fired [from],” Facebook @ MIT, Page 16

Zuckerberg press conference

Before speaking to an assembled group of students in 26-100 yesterday, Facebook CEO Mark Zuckerberg held a brief press conference outside Lobby 10. Much of the discussion referred to his comments at a Stanford University event last Saturday, when he said that he may have kept Facebook in Boston if he had the chance to start over.

As reported by Time magazine, Zuckerberg said, “If you’re a beginner and you don’t know anything about this stuff, [Silicon Valley’s] actually an excellent place to be because a lot of the stuff that you wouldn’t understand how to do on your own, like I didn’t, I could just get help from a lot of other people. But honestly, if I were starting over again, I would not be publish-

IN SHORT

Donate your old winter clothes at the Campus Winter Clothing Drive until Friday, Nov. 26. Donations will be donated to the CASPAS emergency services center. Collection bins are in W4B lobby, E14-060 (Copy Tech.), E19-452, E48-290, and N32-196.

Freshman/Alumni Summer Internship Program (F/ASIP) enrollment is now open until Dec. 19. Applications and more information can be found at http://gcd.mit.edu/jobs/interns/explore/fasip.

The IAP language class lottery is now open for non-study abroad subjects until Dec. 3. For more info to enter, visit web.mit.edu/fasip/www/iap.

The Tech will not be publishing this Friday. Enjoy the Veterans Day weekend!

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

Watch The Tech’s interview with Jorge Cham

MIT and Russia to build research university

On Oct 26, MIT signed an agreement with Russia’s Skolkovo Foundation, marking the beginning of a three-year endeavor to develop a graduate research university, the Skolkovo Institute of Technology (SkTech, pronounced S-K-Tech). SkTech is located in Skolkovo, a region near Moscow that has been described as Russia’s future Silicon Valley. The agreement was signed by MIT President Susan J. Hockfield, Skolkovo Foundation President Vladimir V. Vekselberg, and SkTech founding President Edward F. Czarnecki, ’76, a Course 16 Professor.

The Institute, which is scheduled to open in 2014, will employ about 200 faculty members and enroll an inaugural class of 1,200 graduate students and 300 postgraduate students.

—Bruno F. Faveraro

Science majors, Page 17
Wall Street bonuses are projected to drop up to 30%

By Susanne Craig

Wall Street bonuses are set to fall by an average of 20 to 30 percent this year from a year ago, according to a closely watched compensation survey — the weakest bonus season since the financial crisis and a reflection of the leaner times confronting the industry.

Those who work in trading and investment banking — usually Wall Street’s most profitable businesses, although hurting this year — will experience the sharpest drops in pay, said Alan Johnson, managing director of Johnson Associates, the firm that conducted the survey.

Employees in less volatile businesses, like asset management and commercial banking, will make about the same as they did in 2010. And bonuses for top executives like Lloyd C. Blankfein of Goldman Sachs and Jamie Dimon of JPMorgan Chase are likely to fall sharply as well, Johnson said.

The bonus forecast will come as no surprise to many on Wall Street. Trading profits have slumped and new Dodd-Frank regulations have raised the cost of doing business. Even Goldman Sachs, a firm known for its earning power, last month reported its first quarterly loss since the financial crisis.

Goldman, Bank of America and other Wall Street firms have been cutting thousands of jobs. “It is disappointing,” Johnson said in an interview. “I think we were all hoping we were out of this morass.”

This is the time of the year when Wall Street firms start to make decisions on which bankers and traders will be rewarded for 2011. For many of them, the year-end bonus typically represents the bulk of their compensation. The firms pay as much as 60 percent of their annual revenue in compensation, so much is at stake in how they divvy up their bonus pools.

Wall Street is “effective at knowing what it can get away with” and for months has been managing down expectations of employees about pay, said Michael J. Driscoll, a former senior trader at Bear Stearns. This year the message has been that “star performers” will get paid and the rest of Wall Street will feel the pain, he said.

“Wall Street is the process of re-evaluating what each seat is worth and having been in one of those seats it’s tough,” said Driscoll, now a professor at Adelphi University’s business school. “Right or not, compensation is how you measure yourself and your value. You may still be making a lot, but it is a lot less than what you were making and that is what matters.”

While overall compensation may be down, it is still out of sight compared with what most Americans make. Wall Street workers make a base salary of $100,000 to $1 million for top executives, but most of their pay comes at the end of the year in a big one-time bonus.

Employees are typically informed of their bonus in January or February, with checks going out shortly after.

In the first nine months of the year, Goldman Sachs, Morgan Stanley, JPMorgan Chase, Bank of America and Citigroup had set aside almost $93 billion to pay employees, up from $89.25 billion in the year ago period, according to Johnson Associates.

The final number, however, is not set until the fourth quarter, when firms have a clear idea of their total revenue for the year.

Johnson Associates surveys as many 20 firms every year.

Big paydays came under fire during the financial crisis as lawmakers and others called for restrictions on pay: Wall Street responded by lowering pay in some instances. Firms are also issuing more incentive-based compensation, a move aimed at reducing reckless risk-taking. Firms also raised base salaries of employees after receiving criticism that big bonuses also encouraged employees to take unnecessary risks.

Now, the market turmoil from Europe’s debt crisis and the weak U.S. economy appear to be reining in Wall Street pay.

This year, the biggest loser will be fixed-income employees, Johnson said. This business is historically a big money maker, but profits in trading bonds, currencies and commodities have been hard to come by because of the uncertainty on global markets and economic weakness in the United States.

Goldman Sachs, one of the biggest in fixed income, made $12.07 billion in its fixed income, currency and commodities division during the first nine months of the year, down 27 percent from levels a year ago.
Syria unleashes assault to take an unbowed city

BY ANTHONY SHADID
THE NEW YORK TIMES

BEIRUT — The Syrian government has launched a bloody assault to retake Homs, the country’s third-largest city, facing armed defectors who have prevented the government’s forces from seizing it as they did other restive locales this summer, in what stands as one of the most violent episodes in an uprising now entering its second year.

The specter of civil war has long hung over Homs, the most tenuously and determined of cities opposed to President Bashar Assad’s regime. It has remained loyal to the anti-regime opposition, braving the tiger of arms.

Angry and determined, its population has offered much more resistance than Hama and other large towns, including Deir al-Zour and Latakia, which the government has retaken at the onset of a shift in strategy to crush the uprising almost solely through force of arms.

On Monday, residents of Homs described harrowing scenes of abandoned streets and relentless gunfire, which sent some residents fleeing and forced others to remain indoors for fear of not being able to return to their homes. Death announcements cluttered walls, residents said, testifying to the carnage in the city, which is near the Lebanon border.

Greece and Italy have famously complex political cultures, but today they are both driven by a simple dynamic: No established parties want to assume the full political cost of pushing through unpopular austerity measures and changes to the labor market — And they are jockeying for positions in a new political constellation after eventual elections — as well as for greater bargaining power with the European Union.

The government deepened its interest rates on the country’s debt rose by more than 6 percent, the highest since the introduction of the eurozone more than a decade ago and nearing levels that have halted financial markets. Greece’s government is seeking in a return for its financial assistance to the first year in a long string of activity in which a government minister was negotiating his exit, but lost ground after he denied the reports.

Greece, where political chaos last month with European creditors, demanding that Greece deepen its interest rates on the country’s debt rose by more than 6 percent, the highest since the introduction of the eurozone more than a decade ago and nearing levels that have halted financial markets.

Homs is a turning point for now, said an analyst based in Damascus who spoke on the condition of anonymity. “It’s a successful model of self-defense, if you will, at a time when you really can’t expect people to take any more. They’ve seen too many corpses come back, too many people arrested, disappeared or returned after abominable treatment. It’s too much. And everybody seems to be losing control of the street.”

Just as Hama, a city that rivaled it in size, was retaken at the beginning of the Muslim holy month of Ramadan, violence has shown Homs during an emerging and increasingly militarized Muslim holiday, Id al-Adha, which began Sunday. But Homs and its relatively unified Sunni Muslim majority have offered much more resistance than Hama and other majority have offered much more resistance than Hama and other

Political turmoil further sinks Greece and Italy

BY RACHEL DONADIO
THE NEW YORK TIMES

ROME — With political turmoil still rocking Europe’s most indebted nation, a deepening of the larger eurozone economy on Monday, the fate of the euro zone’s second largest economy worldwide hinged on whether one of Europe’s most tangled and unprogram friendly states” Italy, could deal with its tight financial

high pressure system is in control for the first half of the week, bringing beautiful weather conditions to the Boston area. Similar to yesterday, today and tomorrow should be sunny with unseasonably warm temperatures. Normal high temperatures for this time of year are around 55°F, but we may experience temperatures over 65°F higher than that. Enjoy the

By Anthony Shadid
The New York Times

WASHTINGTON — The Senate on Monday cleared the way for a measure that would repeal a tax withholding program on government contractors after the House easily passed the measure last month. Democrats also intend to make the Senate bill the vehicle for a package of tax breaks to spur the hiring of veterans by government contractors, which includes a program that hire veterans, making the bill the first piece of legislationänner, Democrats also intend to make the Senate bill the vehicle for a package of tax breaks to spur the hiring of veterans by government contractors, which includes a program that hire veterans, making the bill the first piece of legislation

A high pressure system is expected to remain in the region on Thursday. With plenty of moisture associated with that system, there is a potential for heavy rain Thursday afternoon and overnight. The low will move to the northeast, clouds dissipating as a high pressure system moves in from the southeast. The temperatures on Friday will be more seasonally normal, with temperatures in the teens. Friday will be more seasonally normal, with temperatures in the teens.

The workshop is designed to help municipalities assess the risks associated with the implementation of new energy policies, and to guide them in developing strategies to ensure the successful implementation of these policies. The workshop will address topics such as how to identify and prioritize energy savings opportunities, how to develop and implement energy efficiency programs, and how to evaluate the effectiveness of these programs. The workshop will also provide participants with case studies and best practices from municipalities that have successfully implemented energy efficiency policies.

The workshop is designed for local government officials, energy professionals, and other stakeholders involved in energy management and policy development. Participants will gain a deeper understanding of the energy efficiency challenges faced by communities and the tools and strategies available to address these challenges. The workshop will provide a hands-on, interactive learning experience, with opportunities for networking and collaboration among participants.

The workshop will be held at a cost of $125 per participant, with discounts available for groups of three or more. Lunch will be provided, and participants will have the opportunity to attend other sessions and activities as part of the larger conference. The workshop will take place on a sunny, warm day with high temperatures reaching in the mid-70s, with a slight chance of scattered thunderstorms in the afternoon.

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Situation for Noon Eastern time, Tuesday, November 8, 2011
OPINION

The flaws of the movement are not substantial enough to invalidate it

By Ryan Norman

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The Occupy Wall Street movement has been embraced by Republicans nearly since its inception. This is not entirely unreasonable — interviews with some of the protesters have demonstrated an extensive lack of knowledge regarding what they’re promoting and why they’re testing it. One college student said that he thought the government should pay for his college tuition simply because he wants to. Others, even if they are able to clearly enunciate problems, have no ideas about the solution. As such, it has been too easy for Republicans to trivialize this movement, portraying it as a group of people too lazy to look for work, individuals who simply want everything handed to them, or people who are looking for something to do and figure that Occupy Wall Street — being the latest fad — would be fun.

But Republicans should not trivialize the importance of this movement and what it stands for. For every movement, whether it is Occupy Wall Street, the Tea Party, or Red Sox Nation, has a subset of people who are either crazy or do not really care about what the movement is trying to accomplish. For every person who is dressed up in an Occupy costume and has no idea what a financial derivative even is, there is at least one other who is legitimately concerned about the state of the country in, the direction it is going, and has a reasonable set of demands and possible solutions. And it is these individuals who have brought legitimate concerns into the spotlight. Primarily, the degree to which money and corporations can influence elections and policy and the growing inequality gap.

The fact that, only three years after crashing the economy, Wall Street companies are once again making record profits is not, by itself, the fuel for this movement. Rather, it is this occurrence in conjunction with an unemployment rate stubbornly hanging at around nine percent and the fact that average pretax income, since 1979, has dropped by 490 for the bottom 90 percent of households while that of the top one percent has increased by over $70 billion.

An interesting Republican tactic has been to provide the standard advice that hard work will bring you good fortune, and the protesters should stop protesting and just eat sardines. But they can be happy and share in the spoils of the one percent. Of course, the main problem with this is that we have a result of people deciding that they’d rather protest than work — it’s a consequence of the anemic number of jobs being created. Most of these individuals would be more happy to work, if only something would be done to further encourage job creation. Also, new report from the Bertelsmann Stiftung found that when it comes to “equal opportunities for self-realization,” the U.S. ranks 27 out of 31 OECD (Organization for Economic Cooperation and Development) countries, ahead of only Greece, Chile, Mexico, and Turkey. As opportunities for social mobility continue to wane, the middle class used to be the engine of America’s economic growth. The so-called “middle-class values” of hard work and determinism used to lead to success. Republicans should not be satisfied just with telling people that they don’t have a job. If people really can’t get a job, a lot of people will be spending significantly less, which will not be in the best interest of the economy.

On a related note, Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression. It is quite interesting that Republicans feel that high taxes are what caused the Great Depression.
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Fu
If you identified with the kids from The Breakfast Club when it came out, you’re now much closer to the age of Principal Vernon.

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**Sudoku I**

Solution, page 12

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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 I**

Solution, page 12

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Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–7. Follow the mathematical operations for each box.

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**Crossword Puzzle II**

Solution, page 13

| ACROSS | 1 Tobacco mouthfuls | 6 Brought into being | 10 Persevere | 14 New staff member | 15 Nabisco treat | 16 E pluribus unum | 17 Cuban boy in the news in 2000 | 18 Natural sprinkle | 20 Start of a quip | 22 Be inclined? | 23 Lengthy times | 27 Prevaling forcefully | 30 Aware of | 32 Lobster eggs | 33 Alaska’s first governor | 34 Assumed name | 35 Stately tree | 36 Port of aquip | 40 City southwest of Frunze | 41 Cuts of pork | 42 Component piece | 43 Brandy letters | 44 Uses a tuffet | 45 Until now | 47 Crazy cards? | 48 “Un-Break My Heart” singer Braxton | 50 End of aquip | 52 Ages and ages | 53 Roll call answer | 54 Mozart’s “_” kleines Nachtmusik” | 55 Supermodel Kate | 56 Studio apt. | 57 Abner’s size? | 58 Actress Joanne |
| DOWN | 1 Emmet’s title | 2 Hawaiian port | 3 Seed cover | 4 98-pound loser | 5 Breath mint brand | 6 Element #5 | 7 Word of mouth | 8 Tim of “WKRP in Cincinnati” | 9 Like many elements | 10 Piece of brio-a-brac | 11 Lemon’s love | 12 Kennel youngster | 13 Emma’s twins? | 19 Unseat | 21 Chasing game | 24 Richard of “Our Miss Brooks” | 25 Just a minute! | 26 Descendant of Shem | 27 Made wool repairs | 28 Graf’s husband | 29 Efficient vehicle | 30 Ken and Lena | 31 Pen points | 32 Lobster eggs | 33 Alaska’s first governor | 34 Assumed name | 35 Stately tree | 36 Port of aquip | 40 City southwest of Frunze | 41 Cuts of pork | 42 Component piece | 43 Brandy letters | 44 Uses a tuffet | 45 Until now | 47 Crazy cards? | 48 “Un-Break My Heart” singer Braxton | 50 End of aquip | 52 Ages and ages | 53 Roll call answer | 54 Mozart’s “_” kleines Nachtmusik” | 55 Supermodel Kate | 56 Studio apt. | 57 Abner’s size? | 58 Actress Joanne |
“Success in in and out of the water.” That is the motto of Amphibious Achievement, an MIT group that was founded last January that aims to promote success for area high-schoolers through athletic training, specifically in crew and swimming, and academic instruction, with a focus on college-level prep in a fun, innovative way. The program runs on Sundays from 9 a.m. to 12:30 p.m. during the school year on campus.

MIT juniors Noam Angrist ’13 and Ron Rosenberg ’13 founded the program based on their own experiences that the tools and academic connections, and that’s very important for sustainability. For example, the PSC is very invested in Amphibious Achievement. And that means there’s massive turnover of people? There’s also massive turnover of people? —Noam Angrist —Ron Rosenberg

By Arfa Alaiji

Tuesday, November 8, 2011

The Tech

PUBLIC SERVICE @ MIT

In and out of the water

Athletics and academics converge in Amphibious Achievement

By Arfa Alaiji

Tuesday, November 8, 2011

The Tech

In and out of the water

Athletics and academics converge in Amphibious Achievement

By Arfa Alaiji

Tuesday, November 8, 2011

The Tech

We are also seeing healthier habits from the kids, who say, “I don’t know healthy food could taste good.” We have a 10 percent average improvement both in swimming and in crew from last year, which is massive given that they only had seven sessions of 1.5 hours — it had to be purely technical.

We wasn’t really prepared for was how practical we needed to be in the sense that, every time you have an idea, you need to think about the smallest of details.

—Ron Rosenberg

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—Ron Rosenberg
Techdoku 9000
Solution, page 13

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

Sudoku II
Solution, page 13

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–12. Follow the mathematical operations for each box.

How Well Do You Know Your Advisor?
Take the quiz!

1. Where did your advisor go for undergrad? (1 pt.)
2. Where is your advisor’s home town? (1 pt.)
3. Who was your advisor’s advisor (your grandadvisor)? (1 pt.)
4. How many siblings does he/she have, and what are their professions? (1 pt.)
5. What is your advisor’s middle name? (10 pt.)

Your Score:
- 4-5 - You know WAY too much about your Advisor.
- 2-3 - You Google-stalked him, didn’t you?
- 0-1 - You have a normal relationship with your Advisor.
PhD movie cast and crew discuss film tour
The Tech talks with Jorge Cham, creator of PhD Comics, on his film about life in academia

By Joanna Kao  
CAMPAIGN LIFE EDITOR

This is a transcript from an interview with Jorge Cham (creator of PhD comics), Margarett Rose, a student at Caltech, and Meg Rosenburg, one of the producers of the PhD movie, Emma T. Bone’06 (actor playing Mike Slackeren), and Scott Emgeem (composer). The full transcript is at http://tech.mit.edu/V131/N51/phdmovie.html and the video is at http://tech.mit.edu/V131/N51/phdmovie/video.html.

TT: The PhD movie — you guys are all over the world, and I know that at least you have been traveling quite a bit to Switzerland, London, Moscow, Sweden. How did it all start?

Jorge: I've been doing these comics for a long time, and people have always asked me, “Hey, when is there going to be a movie, when is there going to be a TV show about the comic?” So last year, I just kind of decided to do it — to do something. It seemed like it's becoming more possible with production costs the way they are now. You can do things that are small, and they can be things you're interested in doing yourself. So I approached Meg, who is a part of the theater group at Caltech, and that's kind of how the ball got rolling.

TT: So how did you guys get involved? Meg: Rosenberg: Like Jorge said, he approached the theater groups, and I was the only grad student on that email so I was the one that kind of said, “This is really important, this has to happen.”

TT: ‘It seemed like a good time to do something independently, it can only be made true on our own — it can only be made true on our own. I can make my own comic.’

—Jorge Cham

JG: No one else knew who I was. ER: That’s right.

JC: Who is that guy emailing us?

MR: We had a theater director and the undergrads didn't know who you were, so they didn't know how important it was that it should happen, and happen to us. It was a huge deal that it would be our movie. We felt chosen.

Scott Elmegreen: Well, I was like landing on the moon. I just found out about the auditions — they put up a poster for a casting call — I came out because I thought I should meet Mike and I thought I should make an appearance to act, so we worked out.

TT: Scott, you composed some of the musical numbers — did you get involved with the film?

ME: Meg: I came on through Meg. Meg is a childhood friend, and she came up to me about a year and a half ago, and she said, “Hey, are you interested in ever composing anything for PhD comics?” I was like, “Oh, you mean like you're thinking of doing something for comic for years, I've been a fan of it.” And I was like, “How do you get involved?” She was like, “Well, we're in graduate school and he's interested in working with the theater group that.” And then it was radio silence for six months, and I was like, well, that opportunity came and I went. I thought I'd go on and see what would happen.

ME: Meg: I talked more about how you guys made the movie. How did the production process in comparison to Hollywood movies?

TT: People have a lot more money in Hollywood productions — like by a factor of 10, at least. We didn't know — Meg has a lot of experience in theater and video — so do you want to talk a little about that?

MR: I should say that when we started, I didn't know how much it was actually going to take. Kind of that any, a little bit for a while. But it was good; it was worth it. My advisor was actually very supportive of the whole thing. So he thought it was really cool. He came out to the filming to check it out. He was an ex-actor, but that's making a lot of sense. To do things that I really feel about. I may be should have been an executive order to keep that in there.

JC: Make a special edition just for him.

SE: Director's cut.

JC: Professor's cut. TT: Talking more about how you guys made the movie. How was the production process in comparison to Hollywood movies?

TT: Well, we didn't have a lot more money in Hollywood productions — like by a factor of 10, at least. We didn't know — Meg has a lot of experience in theater and video — so do you want to talk a little about that?

MR: It's a comedy from honesty is what it was. Possibly.

JC: A dramedy. TT: ‘I had a lot of experience as a stage manager and producer of theater shows, and I thought that that could translate into film. I was sort of not entirely right about things the hard way. But it worked out pretty well I think.’

JG: For me, it's really about making something that's a little bit of this and a little bit of that, and then other people were covering other aspects of jobs. It was kind of nontraditional. We didn't have an executive producer — all of the jobs, we did them ourselves. We didn't have an executive order to keep that in there.

TT: ‘I think it was a little like landing on the moon. We just did this, and we had to finish it, and whatever it took, people did it. And now, if we were to go back and do a movie that way again, it just wouldn't work. We'd be trying to think everything through carefully, and would get all bureaucratic, and nothing would happen. TT: ‘Now that you guys have done that all once, are you guys planning on doing this again in the future? Maybe like a sequel to the PhD movie?’

ME: Meg: Yeah, yeah. We were thinking it would be called the Phd movie 2, in an even smaller demographic. Or PhD movie 2. Still in Grad School. Possibly. TT: ‘Jumping up — how would you describe the film in one sentence, and what do you hope people will come away from the film with?’

ER: Oh, one sentence, not one word. Information was going to be my one sentence, possibly, to probably around 50 percent informational, and about 50 percent accurate would be my long sentence.

ME: Meg: I feel like I should have been prepared and done some homework. I think the movie is really made by grad students, so it's for grad students, and I think that's really clear when you watch the movie.

JC: For me, it's really about making people laugh. At the heart of it, it's about young people trying to figure out what to do with their lives. I try to also make it a little about truth. If you're going to aim for a higher cause, then it's a little about truth and how do you find academia's role, finding out about truth, and how do you decide if something's true or not. How that all fits into what's truth for you, which's true for other people.

ME: Meg: It's a comedy from honesty is what it is. It's a very honest movie, and it's funny because of that.

JC: A dramedy. TT: Does anyone have any final word?

ME: Meg: You may have heard that there's a rumour that the movie has a heap about MIT, which I can only say too bad, we filmed it at Caltech. It's all in good fun.

TT: Well then, I think we can wrap up then. Thanks for joining us.

All: Thanks for having us.
The Nobel Prize discovery that left a mark on campus

The big, red “J”

The Nobel Prize discovery that left a mark on campus

By Fangfei Shen

I was quite curious about the J. Why J? What did it mean? I couldn’t make much sense of it then. While I was curious, I apparently wasn’t curious enough to search for the answer.

I learned the answer about two years later in 8.276 (Nuclear and Particle Physics). J is one of the names of a famous particle discovered by a group under MIT’s Laboratory for Nuclear Science physicist Samuel C. C. Ting. The full name of the particle is the J/ψ meson, the ψ (Greek letter psi) coming from Burton Richter ’52’s group at Stanford, which made its discovery nearly concurrently with Ting’s group.

What was especially noteworthy about the J/ψ meson was that it was made out of two previously hypothetical particles: the charm quark and its antiparticle, the anticharm. We know today that there are six quarks total (up, down, strange, charm, bottom, and top), and that they are the building blocks of matter, making up protons and neutrons. However, prior to November 1974, when the J/ψ discovery was announced, the known quark family comprised only of the up, down, and strange. Evidence of the charm meant the three quarks became four quarks, which was a big deal, to say the very least.

Physicists returned to the drawing board for particle physics theory so enthusiastically that the announcement of the J/ψ meson discovery set into motion what became known as the “November Revolution” in particle physics. Just a short two years later, both Ting and Richter were awarded the Nobel Prize for their work on the J/ψ meson. Once news of Ting’s Nobel Prize reached Cambridge, letter J started to appear around the MIT campus, including the one on the Laboratory for Nuclear Science’s cyclotron, which I would stare at from 3.091 recitation.

The reason Ting named his discovery “J” varied by source. Some say that the J resembles the Chinese character for Ting’s last name. Others sources, like the MIT Museum’s MIT 150 Exhibit where another J is displayed, say that the previous meson discovered was named K, and J is next to K, hence the J. And finally, Ting himself said in his Nobel Lecture that “the really exciting stable particles are designated by Roman characters — like the postulated W, the intermediate vector boson, the Z, etc.

This “J,” representing the J/ψ meson is displayed at the MIT Museum.

... [both since discovered] — whereas the ‘classical’ particles have Greek designations like ρ, ω, etc. This, combined with the fact that our work in the last decade had been concentrated on the electromagnetic current jμ(x), gave us the idea to call this particle the J particle.”

Regardless of the actual origin, each explanation of the naming of the J carries its own charm.

Physicists returned to the drawing board for particle physics theory so enthusiastically that the announcement of the J/ψ meson discovery set into motion what became known as the ‘November Revolution’ in particle physics.
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**Theatre Review**

J.M. Barrie’s *Peter Pan* takes on CGI

Three sixty’s production takes the best of film and stage on a journey to Neverland

By Charles Lin
Senior Editor

Since J.M. Barrie’s inaugural London stage production in 1905, countless iterations of Peter Pan have graced film and the stage. Each form has its charm; the intimacy of Wendy caring for the Lost Boys shines on the small stage, whereas the majesty of caverning through the London Sky on the way to Neverland seems a feat best left to cinematography. All of these iterations form a collective memory of the Peter Pan story, but no one adaptation can stand alone.

This is the conundrum of producing Peter Pan, a story that sweeps vast arcs from the small to the big, from tinker bell in a jar, to Hook and the tick-tock of the giant alligator. You need to get the big things right, but you can’t lose the small things too. Luckily for us, threesixty’s production, playing in a giant white tent by Government Center through Dec. 30, does both.

The production enjoins dramatic stagecraft with high-flying wire acrobatics, and sets both in an open circular stage enclosed by a giant screen. Think of it as seeing an Imax movie with real, live flying people in a planetarium.

Together, the experience immerses the audience in Neverland. Scenes of the London skyline fly by the audience as the actors hover in midair. The backdrop of the Neverland jungle tingles with activity — butterflies flutter in the background and the branches sway. The Cannoneer from Captain Hook’s pirate ship flies at the audience’s faces and lands with a deafening crash. Fights between the pirates and the Lost Boys spill off the stage and into the audience. At times during the show, it’s terribly easy to fall into the spell of really being in Neverland.

All of this wizardry would be moot if the story itself didn’t live up to the substance of Barrie’s tale of a boy who never grows up. Peter Pan is a much darker story than Disney would have you believe. It struggles between the want to eternally capture the innocence of youth whilst knowing that to live is to endure sadness, tragedy, and mortality. Anchored by strong performances from the leads — Chuck Bradley as a puckish Peter and Evelyn Hoskins as an empathetic Wendy — the cast ably delivers on a tricky script that sometimes wanders, but ultimately flies true.

Threesixty’s production of *Peter Pan* is a blockbuster production with carefully choreographed flying scenes, vivid imagery, and an epic scale and grandeur. But like the best blockbusters, those things by themselves are not enough. This *Peter Pan* soars because it stays true to the story of a little orphan boy who refused to grow up.

*Peter Pan*
Presented by threesixty*
City Hall Plaza
Runs until Dec. 30, 2011

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**Solution to Techdoku I**

from page 5

**Solution to Sudoku I**

from page 6

**Solution to Crossword I**

from page 7

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Bosorme, MA
The curtains rise and we see a young girl teasing her nurse, pulling her this way and that, pulling at her billowing skirt and her petticoats. The girl turns shy when her mother walks in, but then can barely contain her excitement when she is given a lovely new dress to wear to her first big party.

Boston Ballet’s presentation of Romeo and Juliet is a powerful and sensitive telling of the familiar Shakespearean tale. To render the tragic story of this character, beautifully captures Sergei Prokofiev’s score with John Cranko’s choreography and sumptuous costumes with impressive lighting and sets.

Set in 15th-century Verona, Italy, the plot follows the forbidden love between the daughter of Lord Capulet and the son of Lord Montague, whose families are bitter rivals. Juliet is beloved by the Montagues; Paris is in love with Romeo at a party and then secretly marries him. All would be well were it not for dear Capulet that Juliet’s cousin Tybalt looks to quarrel with Romeo. Romeo refuses to duel, so Mercutio takes his turn and is slain and when Tybalt rushes to avenge his friend Mercu- rio then fights Tybalt, takes his life, and is banished from the city. Before he goes, however, he spares his dying friend’s life with night with Juliet.

The next morning, when Juliet learns that she is to marry Count Paris the next day, she enlist Friar Laurence to go behind Tybalt’s back to the opera house, it feels as if you’ve seen a true masterpiece. LED dancers. As the lights turn up in awe of the tumult of emotion experienced playing the Juliet role.

Romeo then fights Tybalt, takes his life, and is banished from the city. Before he goes, however, he spares his dying friend’s life with night with Juliet.

The next morning, when Juliet learns that she is to marry Count Paris the next day, she enlist Friar Laurence to go behind Tybalt’s back to

By Angelique Nehmzow

Romeo and Juliet Boston Ballet Company November 3–13, 2011 Boston Opera House

By Angelique Nehmzow

As the curtains lower, you are left with a little mournful, a little startled, and in awe.

Surprisingly, the deaths of Mercutio and Tybalt killed amid a crowd of villagers during their duel, are more dramatically depicted than those of the lovers. In other versions of the ballet, the deaths of the two lovers overwhelm the third act, with Romeo prolonging a dance with Juliet, and her death to come. Last year was first year in the corps de ballet with the main company. She has had the opportunity to travel with the company, and last year she performed on an open-air stage in the gardens of the palatial Alhambra in Granada, Spain.

Deaton, from Sylvia, Ky., spoke to The Tech about being a dancer and her experiences performing with the Boston Ballet. She currently performs on the Boston Ballet’s corps de ballet, which consists of 17 dancers: 4 male dancers and 13 female dancers.

Deaton is performing. I live to be onstage! Nothing brings me more joy than the adreneline before a show and the satisfaction of hearing the audience’s reaction. I feel in awe of the whole experience. It makes for a rich evening of entertainment, and a refreshing getaway to romantic and tense 15th-century Verona.

What do you find to be the most difficult aspect of being a dancer?

Deaton’s favorite moment is the final curtain call. It’s not only an opportunity to show appreciation to the audience, their reaction is what drives me on to do more. To wake up every day and know that I am fortunate to be a part of something that brings joy to others is a true honor.

The most difficult aspect of being a dancer is the maintenance of roles I perform. I go from very demanding pieces I’ve done, like the waltz to Prokofiev’s imperious music, to more dramatically depicted than those of the lovers. In other versions of the ballet, the deaths of the two lovers overwhelm the third act, with Romeo prolonging a dance with Juliet, and her death to come. Last year was first year in the corps de ballet with the main company. She has had the opportunity to travel with the company, and last year she performed on an open-air stage in the gardens of the palatial Alhambra in Granada, Spain.

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Bruno B. Faviero—The Tech
Hackers hung a banner on the inside of Lobby 7 commemorating the fifth of November. The Latin is five words beginning with the letter V, meaning, “By the power of truth, I, while living, have conquered the universe” — a reference to the movie V for Vendetta.

The MIT Washington, DC Summer Internship Program

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The Tech enters the NEWCRC playoffs last week as the fifth seed and played through the snow to defeat Babson, leading them to Saturday’s 24-17 win over WPI.

The brothers of Lambda Chi Alpha congratulate their neighbor, Adam Riess, Phi Delta Theta ’92, for winning the 2011 Nobel Prize in Physics.

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Facebook, eventually, will expand beyond West
Zuckerberg addresses recent comments at Stanford about startup culture in the Valley

Facebook @ MIT, from Page 1

for using Facebook all day,” joked Schroepfer.

Facebook in Boston?

Facebook’s tour through Cambridge — Zuckerberg also visited Harvard yesterday (his first time back to the college since dropping out) — has fueled media speculation over a Facebook expansion to the East Coast. A little over a week ago, Zuckerberg mentioned in an interview with Startup School’s Jessica Livingston that if he were starting Facebook now, he may have chosen to stay in Boston.

At the MIT event yesterday (and in his Lobby 10 press conference), Zuckerberg clarified those remarks, saying that “I don’t think I could have kept Facebook running out here,” but that Boston and Silicon Valley each have their ups and downs from an entrepreneurial perspective. For example, he said, Silicon Valley businesses share many common philosophies, which can be helpful to new startups but might hinder innovative approaches.

“Silicon Valley thinks certain things as a community,” he said. “It’s like one big organization, in a way.”

But, he added, Boston could be just as good a place to start a company. And during Facebook’s transition to California, the company still felt like Boston.

“For a while we did not feel at home in the Silicon Valley community,” said Zuckerberg, saying that Facebook initially drew heavily on Harvard alums (and faculty) to power its Palo Alto operation.

Zuckerberg and Schroepfer did not rule out the possibility that Facebook could open a Boston or New York office, but offered no immediate plans.

“It’s inevitable that we will expand to other geographies — East Coast of the U.S., Europe, and others,” suggested Schroepfer. But for the time being, Facebook plans on learning from its experiences opening a new office in Seattle, said Zuckerberg. He also cited the time shift and travel time as a hindrance to immediate Facebook expansion beyond the West Coast.

Privacy and security

Grimson also asked the Facebook team about their often-controversial privacy and security policies. In the past, users have alleged that Facebook’s privacy policies are difficult to understand and make too much information public.

The team noted that Facebook gives users control over what information they share and who they share it with, but that users with little or no computer and internet experience may not understand how to protect their information.

“This is a challenge when people don’t understand the rules of the game up-front,” said Schroepfer.

Zuckerberg added that with the imminent release of Facebook’s new Timeline format, users will be able to easily “go back in time” and change the privacy settings on any post, sharing it only with the people they want to.

Facebook has also changed broader conceptions about privacy, said Zuckerberg.

“People embrace mistakes nowadays thanks to Facebook,” he said, suggesting that public but personal information means people will try less and less to cover up their past. Zuckerberg hinted, albeit briefly,

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Math and science majors have highest attrition
High competition at top schools discourage students from completing science degree

Science majors, from Page 1

But, it turns out, middle and high school students have most of the fun, building their enector sets and navigating the AP or IB classes to test the first law of motion. The ex- cule students are getting.”

We're two years into that ex- plorecourse, the data is actually, whereas we're really only able to inflect the whole curriculum with this project-based learning.”

No one doubts that students need a strong theoretical foundation. But what frustrates education experts is how long it has taken for most schools to make changes.

The latest research also suggests that there could be more subtle problems at work.

Matthew Moniz bailed out of en- gineering at Notre Dame in the fall of his sophomore year. He had been enrolled in a double major in civil and environmental departments dream about. He had scored an 800 in math on the SAT and in the 700s in both reading and writing. He also had taken AP courses in Calculus, Placement courses at a prep school, and had spewed out of mathematics at 2.90. Edu- cation, language and English cours- es in other fields and "pushed out" by lower grades in their majors.

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An excited Hiawatha Bray, reporter for the Boston Globe, tries to ask Zuckerberg questions during the press event on Monday.

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Press conference, from Page 1

now, I just would have stayed in Boston, I think.”

Seven years after co-founding the multibillion dollar company, Zuckerberg told the Stanford audience that Silicon Valley’s short attention span “bothers” him.

On the other hand, companies outside of the startup hub show more of a “longer-term cadence,” according to the 27-year-old CEO. Back in 2004, it was his lack of experience that pushed Zuckerberg to the West Coast. In yesterday’s press conference at MIT, Zuckerberg said he had wanted to work with people who had experience building companies.

Still, he stressed that entrepreneurs, especially engineers, should not feel pressured to start out in Silicon Valley. “Often, I think a lot of people move out to Silicon Valley because that’s where they have to be, but there are so many smart people out here at MIT and Harvard and other universities that you could start a company here, you could start a company in New York, you could start it in any country you want.”

“If [entrepreneurs] can find the financing and the engineering talent out here that they need, which I think exists, then a lot of people would be willing to stay for a while.”

Zuckerberg referred to Dropbox as an example of another successful company started in Cambridge by students. Dropbox was co-founded in 2007 by Andrew W. Houston ‘06, a Course VI major, and Anath Ferdowsi ’08 when emails and USB flash drives proved to be inefficient for file-sharing.

Finally, Zuckerberg addressed a question on cyberbullying, describing it as an “unfortunate thing online that we work really hard to prevent.” Facebook’s solutions, such as encouraging users to report abuse, are “social,” Zuckerberg said, “just like a lot of the other dynamics on the site.”

—Matt Moss

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The Goldwater Program provides scholarships of up to $7,500 per academic year. Goldwater scholarship recipients will be eligible for two years of scholarship support. Junior scholarship recipients will be eligible for one year of scholarship support.

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

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More than $600 million missing from MF Global
Derivatives broker collapses, regulator faces biggest test with leader on the sidelines

By Ben Protess and Azam Ahmed
THE NEW YORK TIMES

A few days before MF Global's collapse, regulators stationed at the firm were assured its books were in order.

Their boss, Gary Gensler, was not convinced. A former Goldman Sachs partner who once passed the test for certified public accountants, he bore into the numbers himself and grew uneasy with the firm's finances.

"Keep pressing them," he told his regulators, according to people with direct knowledge of the conversation.

Within days, his suspicions were confirmed. More than $600 million in customer money was missing from MF Global, prompting an investigation by Gensler's Commodity Futures Trading Commission.

As the regulator intensifies its inquiry into MF Global and the firm's former leader, Jon S. Corzine, the agency must do without its hard-charging chairman. Late last week, Gensler stepped away from the investigation amid questions over its handling of MF Global. Lawyers for the Financial Services Roundtable, a Wall Street trade group, have been Washington's most aggressive ambassador to Wall Street, introducing sweeping new rules to crack down on excessive risk taking.

Even industry groups acknowledged his impact, though they are not fond of his aggressive tactics. He can be difficult, colleagues said. And his unshakeable faith in regulation has left some fearful the agency will jeopardize Wall Street's anemic recovery and broader economic growth.

"It may be useful for Chairman Gensler in the short run to be viewed as an opponent of the financial industry, but to be successful in the long run, the CFTC will have to produce workable regulations that do not damage the economy too much," said Steven Lofchie, a partner at Cadwalader, Wickersham & Taft. "The jury is still out on whether the CFTC can do that."

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Wall Street scourge is an unlikely addition to the resume of Gensler, 54, a marathon runner and single father of three daughters, a record number of enforcement actions in 2006.

Under Gensler, the agency embarks on its most high-profile investigation since its founding in 1974.

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Women's teams win NEWMACs

Field Hockey, Soccer teams both earn victories in extra time

By Carlos Greaves

The MIT Field Hockey and Women's Soccer teams won their NEWMAC championship this past Sunday — both in dramatic fashions, and both for the second time in the past three years.

The MIT Field Hockey team (17-3) defeated Mount Holyoke 2-1 in overtime, the right to host this year's first in conference, earned team (17-3), which finished its third in the conference, but defeated Wellesley in the first round of the tournament. The team also beat No. 1 ranked Wheaton in the semifinal to take on No. 1 ranked Springfield College in the final. Springfield scored the first goal of the game in the 42nd minute, but MIT bounced back in the second half when finally, in the 83rd minute, Samantha A. Fleishmann '14 scored the equalizing goal to send the game into overtime. Neither team was able to score in two periods of overtime, and thus the game was decided by a penalty shootout, where MIT came out on top 4-3. The victory also earned the Women's Soccer team a spot in the NCAA Division III tournament for the second time in three years.

The last time both the Field Hockey and Women's Soccer teams won NEWMAC titles was in 2009 when both teams defeated Springfield College. Be sure to cheer both teams as they enter their respective NCAA tournaments.

Women's Volleyball fall to Springfield College in NEWMAC semifinal

After a strong finish last week against WPI, the Engineers advanced to the NEWMAC semifinals. MIT lost in all three sets with final scores of 25-16, 25-10, and 25-15. MIT opened the first two sets taking the first two points, fighting throughout the matches for a lead over Springfield. The third match began with Springfield in the lead, and they kept ahead of MIT to eventually take the win, sweeping the Engineers in all three matches.

—Shelley Ackerman, Sports Editor

Men's Soccer loses to Babson in final game

The Babson Beavers defeated MIT 2-1 in the Engineer's final game of the season. MIT finished this season with a 9-8-0 record overall.

Babson made its first goal near the end of the first half. A short while later, Babson turned up the heat again and garnered the Beavers' second goal. Feeling the pressure, the Engineers sought out chances to score. Babson's defense kept MIT off the boards until 84:14, during the second half, when Benjamin A. Lewis '13 made an open attempt, but unfortunately the ball sailed over the crossbar.

This game marked the end of the season for the Engineers, who have played in the semifinals of the NEWMAC Men's Soccer tournament for the past three out of four years. Babson will either face Wheaton College or Springfield College in the finals on Sunday at 1 p.m.

—Katie Bodner, Sports Staff

Men's Water Polo takes 5th in CWPA tournament

By JarEd L. Wong

Babson will either face Wheaton College or Springfield College in final game.

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• Earth Science and Engineering (EnSE)
• Electrical Engineering (EE)
• Environmental Science and Engineering (EnSE)
• Marine Science (MarSE)
• Materials Science and Engineering (MSE)
• Mechanical Engineering (ME)

Master's and PhD students will benefit from the extensive scholarship package that includes:

• Full tuition
• Monthly living allowance
• Housing
• Relocation support
• Health and dental insurance

Eligible students may apply immediately for MS/PhD programs starting in September 2012.

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