Artist Jason Derülo to headline Spring Weekend concert
Janelle Monae will perform the opening act for Apr. 29 event

By Stan Gill

R&B will be the musical style of choice at this year’s annual MIT Spring Weekend Concert. Jason Derülo, known for his hits “Ri- din’ Solo” and “Whatcha Say,” will headline the concert. Contemporary R&B artist Janelle Monae will be opening the concert. The concert will take place on April 29, 8 p.m. at Johnson Ice Rink.

The selection process for the performers was handled by the Undergraduate Association Events Committee. Though the UA committee has traditionally handled finding entertainment in conjunction with the Student Activities Office, SAO took over these responsibilities in spring 2008 when the committee was unable to come to a conclusion. The choice returned to the UA in 2009 after an overhaul of the committee structure.

To start the process, Events Committee brainstorms a list of artists, which is sent to the committee’s agent at Pretty Polly Productions. The agent directly negotiates with and books the artists, and may inform the committee of other artists who they believe might be a good fit for MIT. The list of artists submitted to the agent this year was taken from the results of a survey sent to students in fall 2010. Channele Chen ’12, Chair of the UA Events Committee, says that the biggest criterion for picking an artist is price.

“Booking talent costs much more than people think,” Chen said. “As much as we would always love to get someone who is very current, we just do not have the budget for it.”

Events Committee has a budget of about $100,000 for the event, about $75,000 of which is spent on the costs of booking the headliner.

John Reed meets with UA Senate
Chairman addresses student engagement

By Ethan A. Solomon

Chairman of the MIT Corporation John S. Reed ‘61 speaks to the Undergraduate Association Senate on Monday evening in W20-400. Reed spoke on theendorsement, deferred maintenance, and student life.

One official ticket running for UA President/VP

As of the official late petition deadline yesterday at noon, only one pair of candidates had announced their intentions to run for UA President and Vice President. Allan E. Miramonti ‘13 and Alice C. Lai ‘13 are the only candidates for president and vice president, respectively. It is possible that write-in candidates could be announced in the coming weeks.

In the platform submitted with their candidacy, the pair described three primary areas of focus — student engagement, enhancement of student spaces, and linking student services.

“From now on, we plan to address student engagement issues by being proactive and rebuilding trust between students and administrators. Also, we feel that many student spaces on campus can be better optimized for student needs. Lastly, we would like to create a UA Help Desk that will bring together information about all of the student resources on campus,” Miramonti wrote in an e-mail.

Chen is currently a UA senator from Random House, and Lai is currently the UA Secretary General and Next House President. Undergraduates have not elected a UA president who is not entering his or her last year at MIT since at least 1994.

Many class council positions have similarly uncontested elections, excluding potential write-ins (see table, p. 14). Only one of the 2014 class council positions has two candidates, but three tickets, had more than two candidates. Over half of all open positions have only one ticket or candidate.

The platforms of all candidates who submitted petitions by deadline (not write-in candidates) can be viewed at the UA elections website, vote.mit.edu.

—Paweł Lipinski

Incident in Building 46

Around 5:30 p.m. yesterday, an unidentified male fell from an upper story of the Brain and Cognitive Sciences Complex (Building 46) to the third floor and was reported unresponsive. He fell from the eighth floor of the building down to the open atrium two stories below. Police were on the scene immediately and traffic was directed away from Vassar Street.

The male was breathing when medical help arrived and had sustained a major head injury. Despite his injury, he remained conscious in the ambulance while being transported to Massachusetts General Hospital. His girlfriend, escorted by a police officer, visited him at the hospital yesterday evening.

There was at least one witness who gave a statement to the MIT Police, reportedly traumatized after witnessing the incident. The witness was later transported to MIT Medical.

MIT staff are now allowed to participate in intramural sports! Check the intramural website for details, http://web/mit.edu/athletics/inntramural/index.html.

No towel service today

By Ethan A. Solomon

To learn some distinctive MIT’s Lindy Hop Society

Follow along the NCAA Div. III Championship with The Tech’s handy tournament bracket Sports, p. 15
Despite Oscar win, migrants at Israeli school face deportation

TEL AVIV, Israel — The children in the kindergarten class were taking their new celebrity status in stride Monday, singing a Hebrew folk song about the open waters of the Mediterranean for more than an hour after an American movie star won the Academy Award for best supporting actor.

Michael R. Bromwich, director of the Bureau of Ocean Energy Management, Regulation and Enforcement, said that No- ble Energy had been granted permission to resume drilling in the Gulf of Mexico since the BP explosion and spill last spring, that it had approved the first new deepwater drilling permit in the Gulf of Mexico since the BP explosion and spill last spring, and that the plan would be carried out in the United States.

In Geneva, Secretary of State Hillary Rodham Clinton announced that the U.S. Agency for International Development was dispatching two teams to Libya's borders in Egypt and Tunisia to assess the need for humanitarian assistance. She said the aid agency had set aside $10 million for humanitarian assistance and had begun an inventory of U.S. emergency food supplies.

A spokeswoman for the Interior Ministry said that since Au- gust, the government had considered more than 700 requests coming weeks. Their final stages and that the plan would be carried out in the United States.

The attacks by the colonel's troops on an oil refinery in cen- tral Libya and on cities and towns along the Libyan coast have raised the prospect that rebels might resort to violence yet again, as officials reported on Thursday.

The numbers seem to have in- creased over the weekend as armed rebel forces moved closer to a showdown with Muammar Gaddafi and his loyalists, who were standing their ground in Tripoli — the capital — and a handful of other locations.

The executive director of the United Nations Program to run off the coast of Louisiana.

Despite the school’s 828 pupils, ranging from kindergarten to sixth grade, Bialik-Rogozin in south Tel Aviv, won the Academy Award for best foreign language film.

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Digital music services such as Pandora gather new investors

By Ben Sisario
THE NEW YORK TIMES

Since it emerged in the 1990s, digital music has been hugely popular, but with far less online music companies have found that the business is about to turn a corner.

Even Apple, the largest music retailer, has made losses over the past decade, taken by the business to sell more than 10 billion songs since 2003.

"A number of investors have not invested in digital music be- fore," said David Pakman, a venture capital group and an executive of the download service eMusic. "Usually the ones who have, have learned over the decade that it’s an impossible hard place to make money.

More even challenging for startups, two very big players are expected to introduce cloud-based music services this year: Apple and Google.

But more bullish investors point to technological developments and say in an industry that has been characterized as a quagmire, and expensive licensing deals, the competition is getting more intense and is collapsing over the past decade, tak- ing a toll on companies and their suppliers such as large computer networks.

"Companies that are making money are doing so by cutting expenses and focusing on areas that are not as hard to monetize as the explosive success of smartphones,"said Brooks Barnes, a former chief executive of The New York Times.

"The business is about to turn a corner in a way we haven’t seen before," said Ben Sisario, a senior editor at The New York Times.

The company has sold more than 10 million registered users, up 30% from the previous year.

"The key to success is to find the right balance, and that’s what we’re working on," said Jonathan Ansell, the company’s chief executive.

The company has faced significant challenges in recent years, including a lawsuit against its former chief executive, who is now working for Pandora.

The company has been working on a new service that allows users to create their own playlists and share them with friends.

"We’re excited about the future of music, and we’re committed to building a sustainable business," said Sisario.

Digital music services such as Pandora gather new investors

China takes Middle East as example

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China takes Middle East as example, last year, ratings are poor

By Andrew Jacobs and Jonathan Ansell
THE NEW YORK TIMES

BEIJING — The call to action shot across mobile phones and Internet chat groups in early February had an unusual ring to it. The message was connected to 13 Chinese cities to demand an end to the government’s refusal to accept or reject the business model of state-owned and foreign public companies.

"The Chinese people do not have the patience to wait any longer," said one message.

Two anonymous organizers got a similar turnout — but in China, most of those who posted onto social media were young people who worked with police officers and plainclothes se- curity agents.

Two months of upheaval in the Middle East have cast doubt on the staying power of all authoritarian governments. But in China, calls for change are so far being met with po- lice threats and official crackdowns by autho- rities who, even during a period of rising prosperity and national pride, have moved to control any protests calling for an immediate end to their authoritarian rule.

"It is a comprehensive call to arms for the business to monetize digital music, which is now a reality," said Dan Daddo, a former chief executive of The New York Times.

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Today is the first day of the chan-
cellorship of W. Eric L. Grimson PhD ’86. The Tech applauds his selection, and is excited to see the new ideas and perspective that he brings to the position. Students have voiced strong support for the new chancellor, based on Grimson’s past service with students and faculty members on numerous committees. Grimson has also praised his work as a professor and academic leader, and through his experience as a graduate student here, we feel that he is well positioned to understand and support the unique culture of the Institute.

With Susan J. Hookliff’s notably outward-facing stance as president, students have come to view the individual as the most responsible for their welfare. We look to Grimson to fairly balance the needs of students with those of other stakeholders at MIT — faculty, adminis-
trators, staff, parents — and to do so transparently. We ask that he and the offices he oversees hearken to graduate and undergraduate students the same way they do to other stakeholders at MIT. As such, we look for transparency in his decisions and di-
rect lines of contact to students, per-
haps through office hours. Wherever possible, we expect that he will solicit and incorporate student input into his decisions.

We look to Grimson to fairly balance the needs of students with those of other stakeholders at MIT.

Keep your eye on the ball, America

By Rachel Bandier

The governments of Egypt and Tunisia have toppled like dominoes, accompanied by massive protests in Libya, Bahrain, Algeria, Jordan, and Yemen. Crises for free-
dom, revolution, and reform have been transformed into global stories. Among

the chaos and excitement, it is important to not lose sight of one of America’s most prevalent threats: a nuclear Iran.

After the Iranian Revolution of 1979 and the overthrow of the Shah, Iran was declared an Islamic republic by Ayatollah Khomeini. As supreme leader, Khomeini worked to implement strict Shia law, which included measures like prohibiting women from being judges and forgoing the inheritance of a hijab, in an effort to reverse modernizing reforms and fight westernization. Since then, Iranian leadership has become in-
creasingly radicalized and has set the po-
litical stage for modern-day Iran.

Of course, the easiest way to reach any member of our staff. If you are unsure
reserves the right to edit or condense

Letters to the Editor

Editorial

Opening a new chapter in student engagement

By Chancellor Grimson

Widenining inequality gap undermining “American Dream”

In his Feb. 22 opinion piece, “The In-

equality Illusion,” Keith Yost conveniently glosses over many underlying issues associated with wealth inequality. While it is true that the poor are not spending a higher percentage of their income on food than they were twenty years ago, neither are the rich. Those in the top quintile will save a larger pool of disposable income in absolute terms, which can be used to accumulate wealth. As Yost pointed out, they might be inclined to leave this wealth to specific groups, often their famil-

ies. However, Yost chose not to address the clear question that follows this argument; namely, does the rising wealth inequality and concentration of wealth lead to lower income mobility and how is this answer to this directly, but a study from the Federal Reserve Bank of Boston indicated that over

the period 1967–2004, income mobility was

reduced, which can simply be ignored when making policy decisions. The

Government of America's most respon-

sibility for graduate and under-

graduate education, Graduate Educa-

tion, and Student Life, he is uniquely

positioned to serve as an arbitrator of needs of students and faculty members. Grimson

to lend his experience and

leadership to the MIT or local community.

We expect that he will solicit and

solicit student input into his decisions.

By Chancellor Grimson
Don't ask, don't tell, don't change

By Keith Yost

Let's start with one basic, almost indisputable fact: the likelihood of repealing Don't Ask, Don't Tell (DADT) will be to make our military weaker. Judging by the recent history of the U.S. Marine Corps will suffer the greatest im-

Don't Ask, Don't Tell (DADT) does not simply disallow gay service members — it marginalizes gays. Keeping this an-

There are three problems with this. The first is that there is no “right” path to take by the military — they would probably or definitely leave following the completion of their present ob-

Secondly, the trade-off seems hard-

Lastly, and most importantly, making trade-offs of this nature seems dan-

The repeal of DADT will raise the percentage of marines leaving as soon as legally able to

55.5 percent.

For us, if supposed that green re-

First, the repeal of DADT could effectively replace the half of our veteran corps that plans on leave-

Question 70 & 71. If Don’t Ask, Don’t Tell is repealed and you are working with a Service member in your immediate unit who has said he or she is gay or lesbian, how, if at all, would it affect your immediate unit’s effectiveness at completing its mission...

Very Positive/Positive 32.6% 29.3% 20.8%

Equally Positive and Negative 32.8% 29.3% 20.9%

No Effect 10.5% 10.8% 20.8%

Very Negative/Negative 38.1 percent of marines said they would immediately leave if DADT were to change, while 21 leave earlier than planned, while only 2.2 percent said they would think about or defi-

In a field environment or out at sea

Don't Ask Don't Tell (DADT) is to the military, Justin re-

New York. I head to a civil disobedience

But consider the DOD’s last statistic: When asked about a DADT repeal’s effect “in intense combat

The only way to snap soldiers out of this ignorant mentality is educate them about gay people. For too long, dema-

In response to Obama’s challenge to DADT both in and out of the administration, the Department of Defense conducted a comprehensive review on the implications of repealing DADT by surveying service members’ opinions for over nine months. The research shows that when service members without deployment experience were asked if their unit’s effec-

The repeal of DADT has corrected a deep and pernicious social injustice

By Andy Liang

So what? you might ask. Isn’t this a matter of equality? If a third of our Ma-

Questions 70 & 71. If Don’t Ask, Don’t Tell is repealed and you are working with a Service member in your immediate unit who has said he or she is gay or lesbian, how, if at all, would it affect your immediate unit’s effectiveness at completing its mission...

I will stay longer than I had planned

I will think about staying longer than I had planned

I will stay somewhere between those two

My military career plans would not change

By Larry D. Butcher

There’s no real way to snap soldiers out of this ignorance. For too long, demog-

Every time I see World Wars I and II pictures, I think about what the experience of these soldiers was like. I have been privileged to see them face-to-face. I have been in meetings with them. I have been in schools with them. There is no real way to snap soldiers out of this ignorance. For too long, demagogues like McCain have made gays look like enemies of the state. But consider the DOD’s last statistic: When asked about a DADT repeal’s effect “in intense combat situations” or “when a crisis or nega-

All these statistics were from the Report of the Comprehensive Review of the Issues Associated with a Repeal of ‘Don’t Ask, Don’t Tell’, released by the Department of Defense in Defense

I will stay somewhere between those two

I will leave sooner than I had planned

I will stay somewhere between those two

My military career plans would change

I will stay longer than I had planned

I will think about staying longer than I had planned

I will stay somewhere between those two

My military career plans would not change

11.4% 25.8% 18.6% 44.3%

17.4% 32.6% 29.3% 20.8%

17.2% 32.8% 29.3% 20.9%

12.5% 33.3% 24.7% 29.4%

12.4% 31.4% 25.6% 30.6%

9.6% 12.2% 11.0% 14.8%

10.5% 9.8% 12.2% 11.0% 14.8%

73,210 62.3% 60.2% 47.5% 68.0% 69.0% 67.5%

10,690 10.5% 9.8% 12.2% 11.2% 10.3% 14.0%

12,128 12.6% 14.2% 23.1% 7.9% 8.2% 6.2%

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Protests distract from more pressing concerns

Mahmoud Ahmadinejad, the current president of Iran, has been a political thorn in the side of the United States for some time. His non-conventional approach to international politics, his lack of respect for Israel, and his support for the Islamic states have led to tensions between the two countries for some time. However, the recent protests in Iran have caused concerns for many people. These protests have been driven by the government's policies on nuclear energy, which the United Nations and other nations are concerned about. The protests have been violent at times, and the government has cracked down on the protesters. Furthermore, the protests have been internationalized, with many countries around the world expressing concern about the situation. The United States and other nations have been working to find a diplomatic solution to the crisis, but the situation remains tense. It is important to support the protests and work towards a peaceful resolution. The situation is complex, and it will take time to resolve. It is important to stay informed and to support those who are fighting for their rights.
Baby, I was born this way

WarNiNg: May ContaiN Nuts

Maybe the original 151 weren’t so much better after all

Tuesday, March 1, 2011 The Tech

From the campus life section:

The walk to and from school everyday simply can’t be uphill both ways, which is why I don’t want to ever turn into a "back in the day" person. Fifteen years from now, when all media is streamed over the Internet and free from FCC regulation, I don’t want to be running around saying things like, “Remember back in the day, when we used to have artists like Kathia and Britney Spears? Those singers had class!” Unfortuantely, not becoming a “back in the day” person is easier said than done. I know this because I caught myself unknowingly turning it on.

It all started when I decided to catch up on what had happened to Pokemon over the last 10 years. Why shouldn’t I be cut-out? After all, Pokemon has had a profound impact on my personal life. Not only was it perhaps the single greatest part of my childhood experience, I’m told that my attitude toward every activity I ever gotten into is derived from the wisdom of Ash Ketchum.

To top it off, there’s no doubt in my mind that Pokemon’s implicit affirmation of the thoroughgoing machismo of the culture of university health care at PokemonCenters, had a significant influence on my political ideology. My love of Pokemon is why, upon beginning my research, it was so shocking to discover the current, horrific state of the Pokemon franchise.

With each new installment, the video games got worse. Pokemon Red and Blue were the best. Pokemon Gold and Silver were the last truly great games. Adding tons of new Pokemon each generation turned out to be a bad idea. Two-hundred and fifty one Pokemon was already stretching it; the creators simply ran out of good ideas for new ones. As if this wasn’t bad enough, with the newer games came the appalling addition of the Pokemon beauty contest. Unfortunately, the games were only the beginning, the same thing happened to the anime. The first couple seasons of Pokemon were epic. There were compelling themes, the relationship between Ash and the cooler and more popular Gary Oak, the sexual tension between Ash and Misty, and the difficulaty Ash had earning the respect of Pika-chu and Charizard. The first seasons also had meaningful character development, viewers watched as Ketchum slowly evolved into a true Pokemon Trainer. To top it all off, Pokemon battles were exciting. When Ash turned his back on the group and went to play go, people knew stuff was about to change.

Now look at the Pokemon anime. There is no longer anything meaningful about the Pokemon world. It’s only the way you look, the way sandwich, because after all, it’s what’s on the inside that counts.

Don’t:

• ambush your friend or team up with any subsequent attempts at engagement may not work. So tomorrow, when you’re walking out the door, open that outfit you’re wearing and hold your head up high. Let Lady Gaga reso- nate in your head — don’t hide yourself in regret, just love yourself and you’re set. Toss those old boring and delicious Subway sandwich, because after all, it’s what’s on the inside that counts.

If you’re interested in the Making Peace with Food and Body Image program, send an e-mail to Zan Barry at bars@med.mit.edu. Sign-ups are open until March 4.

Resources

MIT Resources

Mental Health and Counseling groups:

http://medweb.mit.edu/directory/services/support_groups.html

MIT Contacts:

For an educational workshop or advice about how to help a friend:

Zan Barry, Community Wellness: barbor@med.mit.edu

If you are an intercollegiate athlete concerned about eating habits:

Sports Medicine at the Z Center: athletics-training@mit.edu

External Resources

National Eating Disorders Association — advice about how to help a friend and other info sheets:

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Online support for eating disorders recovery:

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America the Beautiful, documentary about America’s obsession with appearance, coming to MIT in 2012:

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Swinging the blues away

Dance, twirl, and spin to the beat with MIT’s Lindy Hop Society

By Deena Wang, Staff Columnist

To the jazzy sound of the clarinet, pairs twirl and spin across the floor of Lobdell, switching styles from improvisational blues to fast-paced swing in tune to the music. But this wasn’t a dance competition, or an exclusive party — it was just one of the weekly dances run by the MIT Lindy Hop Society.

According to Ken T. Takasugawa ’03, one of the club organizers, the society was started by a group of graduate students who were passionate about swing dancing. They met informally in random classrooms until becoming an official organization in 2001. Currently, there are more graduate student members than undergraduates, in addition to the alums and outside visitors from Boston’s nationally renowned swing dancing scene. Compared to other Boston swing clubs, the MIT Lindy Hop Society is larger, with a greater proportion of beginners. It’s free too, which is good for college students.

Even if you’ve never stepped foot on a dance floor, you can still have fun learning how to dance. The club is very beginner-friendly, and classes are taught by volunteer instructors before each dance. And if you’re a beginner, you won’t be alone, because other beginners often come to dance. “It’s not too difficult to pick up on your first few steps,” Takasugawa said. “There’s not so many strict rules about what is right or what is wrong.”

For swing dancing, there’s less emphasis on fixed steps than a more European style like waltz. Once you know the basic step, you can add flair and variations on a theme.

If you’re already an expert in another style of dance, then you can incorporate those moves into swing, which is a remarkably plastic form.

Swing is full of high-energy action, with the leader and the follower counterbalancing each other’s weight as they fling each other around, like a carnival ride for two.

“I’ve done many forms of dance, but this one I like because … there aren’t that many fixed moves and patterns. It unash- es the freedom and the artistry of the mu- sic,” Takasugawa said.

With blues, the gestures are even more fluid, with variable steps and tempo. The movements of the body are as improvisa- tional as the music itself. Once you have the flow of the dance down, you can mix it up by adding dips and spins. If you love blues music, this is a good way to experience it in a whole new dimension. Being familiar with the music can inspire dance variations, like hearing lyrical “sentences” punctuated with pauses being the perfect opportunity for a “call and response” type dance.

But mastering the dance is still a chal- lenge; it’s a different way of thinking than integrating or vector calculus. Swing is full of high-energy action, with the leader and the follower counterbalancing each other’s weight as they fling each other around, like a carnival ride for two. For the truly advanced, there are even aerial moves that flip the follower over the back of the leader. “The faster you spin, the more fun,” said Aaron L. Scheinberg G, one of the dancers.

Dancing is all about reading your partner’s signals and moving in sync with them, although at my neophyte level, I mostly concentrate on avoiding people’s feet. How- ever, an expert dancer showed me moves I had previously thought to be in the realm of professionals, like a double-person spin. Confidence makes the moves. But the most important thing to remember is that there’s no pressure and it’s all for fun, just like be- ing on freshman pass/too record again.

Many find the Lindy Hop Society to be a great way to meet new people. Undergraduates, graduate students, MIT employees and alums, and the non-MIT-affiliated are all brought together out of a common love of swing. Don’t worry if you don’t have a partner coming in, because you’re sure to find one on the dance floor. Julia Wagner (a Tufts University ’11), one of the dance teachers, says that a lot of dancers are work- ing engineers, and she was even able to find professional contacts in the society. “When you’re a student, a lot of times you end up in your student bubble, but it’s really very nice to have friends in other age groups,” she said.

Swing dancing, energetic music, and fun people — what more could you ask for? The next time you’re free on a Wednesday night, come to Lobdell, grab a partner, and swing the night away.

Institute Double Take

By Meng Heng Touch, Staff Photographer

This view of the sunset from Lobby 7 was taken through the view- finder of a medium format camera from the second floor balcony. The reflection on the viewfinder gives a different perspective of a view that we see every day on the way home from classes. The spectacular view is normally ignored, overshadowed by the tiredness of a whole day of classes and work.

I was originally looking around for random views that would let me play around with the medium format camera. The view of Lobby 7 seemed to be a good candidate location to test out the camera. However, in the process of focusing the camera, this aesthetic view suddenly became very different — even mind-blowing. As I focused the lens, the dramatic difference made me wonder if I was focusing my view more than the camera’s view.

I saw this view every day, but I never noticed its significance. All it took was another viewfinder to uncover the spectacular things that surround us.

EVENTS

TUESDAY

12:00 p.m. — 1:00 p.m. Welcome MIT’s new chancellor, W. Eric Glimson PhD ’80 — Lobby 7

2:00 p.m. — 4:00 p.m. “Integration of mechanical and chemical signals in cell motility,” talk given by Dr. Gaudenz Danuser of Harvard Medical School — 32-123

5:00 p.m. — 6:00 p.m. Legatum Lecture: The Long Tail of Exper- tise presented by Dr. Alpheus Bingham of InnoCentive, Inc. — 32-155 (Stata lecture hall)

WEDNESDAY

5:00 p.m. — 7:00 p.m. Kresge Auditorium: MIT Alumni Ensemble — 8:00 p.m. — 10:00 p.m.

FRIDAY

4:00 p.m. — 5:00 p.m. Dedication of the David H. Koch Institute for Integrative Cancer Research — Koch Institute, Bldg. 26

8:00 p.m. — 10:00 p.m. Festival Jazz Ensemble concert — Kresge Auditorium

SATURDAY

8:00 p.m. — 10:00 p.m. Radius Ensemble: MIT Alumni Ensemble in Residence performs — Kilian Hall

8:00 p.m. — 10:00 p.m. Lontano Ensemble from the UI K performs a concert of music by MIT composers — Kresge Auditorium

MONDAY

3:45 p.m. — 5:00 p.m. Dr. Robert Jaffe presents “More Precious than Gold: Critical Elements for New Energy Technologies” — 47-302

4:30 p.m. — 6:00 p.m. Dr. Hans Joachim Freund of the Fritz-Haber-Institute of the Max-Planck-Gesellschaft presents “Models for catalysts: Is there anything new?” — 6-120
DON'T MISS AN OPPORTUNITY OF A LIFETIME

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Masdar Institute of Science and Technology, established by the government of Abu Dhabi with the assistance of the Massachusetts Institute of Technology (MIT), is a not-for-profit, private graduate university that has developed an academic and research platform that focuses on critical energy and sustainability challenges.

WHY MASDAR INSTITUTE?

Solutions to complex real-world problems require a multidisciplinary approach from an integrated technology, systems, and policy perspective. Masdar Institute supports this approach with its academic programs and the emphasis placed on engaging external partners from industry, government, and other academic institutions in collaborative activities.

RESEARCH FOCUS

Renewable Energy; Photovoltaics; Technology Policy for Energy and Water; Cost of Climate Change on Health; Recycling and Waste Management; Intelligent Devices for Smart Power Grids; Data Mining for Smart Grids; and more.

CAREER OPPORTUNITIES

Unprecedented career opportunities are available to Masdar Institute graduates in the area of renewable energy and sustainable energy. If you see yourself as having the passion to be a future leader in energy technologies, to be an innovator or entrepreneur, to lead the future towards sustainability, then come to Masdar Institute.

INFORMATION SESSION

March 1, 2011
AVAILABLE SESSIONS 12:00 pm – 2:30 pm or 3:00 pm - 5:00 pm
Bartos Theater, MIT, Wiesner Building (Building E15), 20 Ames Street, Cambridge, MA

Join us in Bartos Theater to learn more about the opportunities that Masdar Institute offers prospective students including 100% scholarships and employment opportunities.

For more information, please contact us on 617-324-0094 or visit www.masdar.ac.ae

Learning to Change the World
A Campaign Of Perpetual Psychic Warfare

by Jerry Holkins
and Mike Krahulik

Sudoku
Solution, page 13

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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.

Techdoku
Solution, page 13

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.
Crossword Puzzle
Solution, page 13

ACROSS
1 Laurel and Musial
6 Repeatedly
11 Boxer’s stats
14 Fragment
15 Capacious
16 NASA’s ISS partner
17 Dang
20 Currier’s partner
21 Old-fashioned dagger
22 Deng
29 Convex moldings
30 End of a buck?
31 Norwegian saint
32 President Garfield’s middle name
34 Sighs with delight
37 Ding
41 Puncture sound
42 Timely benefits
43 Org. of court players
44 Four fluid ounces
45 More qualified
46 Dong
52 City south of Moscow
53 Big mil. brass
54 Dung
59 More qualified
62 1900
63 Pong producer
64 Winter wool
65 Vegetable ball
66 Safin of tennis
67 Places at the table

DOWN
1 NNW’s opposite
2 Fort Worth sch.
3 Dadaist Jean
4 Slangy refusal
5 Smeltery byproduct
6 Bay window
7 Bone cavity
8 Youngster
9 Radio static letters
10 LIRR terminus
11 Sandra’s “Speed” co-star
12 Start of a path?
13 Sub-Saharan region
14 High times
15 Shrinky dinks
16 Campfire whoppers
17 Q.E.D. word
18 Capital of Italy
19 Nobel Institute city
20 High times
21 High times
22 Sub-Saharan region
23 High times
24 High times
25 Son of Leah
26 Campfire whoppers
27 Q.E.D. word
28 Capital of Italy
29 Punctuation sound
30 End of a buck?
31 Norwegian saint
32 President Garfield’s middle name
33 Sighs with delight
34 Slangy refusal
35 Smeltery byproduct
36 Entanglement
37 Ding
40 Ernest of country music
41 Puncture sound
43 Org. of court players
44 Four fluid ounces
45 More qualified
46 Dong
51 Like Brahms piano trio No. 1
52 City south of Moscow
53 Big mil. brass
54 Dung
59 More qualified
62 1900
63 Pong producer
64 Winter wool
65 Vegetable ball
66 Safin of tennis
67 Places at the table

50 Accord with
51 Like Brahms piano trio No. 1
55 Tasty tuber
56 Sch. org.
57 Corn serving
58 Female of the flock
59 Pekoe, e.g.
60 Rent out
61 Mag supervisors

by Jorge Cham

Flying Cars

by Randall Munroe

Piled Higher And Deeper

Prof. Smith, I need you to make travel reservations for the upcoming conference.

No problem. Just pay for it now and the department will reimburse you when you come back.

You want me to give the university an interest-free loan so I can represent it and tell everyone what a great place this is?

It’s not interest-free if it serves our interest.

That’s interesting.

Tuesday, March 1, 2011

The Tech

by Jorge Cham

A Webcomic of Romance, Sarcasm, Math, and Language

by Randall Munroe

It’s hard to fit in the backseat of my flying car with my android Realdoll when we’re both wearing jetpacks.
Bose is pleased to offer special savings for all students, employees and retirees of M.I.T.

Receive savings on most Bose products, including the acclaimed Wave music system, home entertainment systems, headphones, and solutions for today's most popular portable music devices.

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R&B artists to play Spring Weekend

Spring Weekend, from Page 1

and opening act. The top five performers students ranked in last fall’s survey were artists Kid Cudi, Ke$ha, and a three-way tie for third among Owl City, Bruno Mars, and Jason Derülo. All of them were extended offers except Ke$ha, who was not available to perform on the date of the concert. Because of the budget constraint, the committee lost bid wars for Kid Cudi and Bruno Mars to other schools with larger event budgets. Chen says that the bid for Bruno Mars was lost to the University of New Haven and the bid for Kid Cudi was lost to Syracuse University.

Chen says they expect the normal amount of about 1200 tickets to be sold for the event.

"We took a risk with N*E*R*D last year, which did not sell as well as we had hoped," Chen said. "This year, I think that we have the advantage of having someone with more name recognition compared to last year."

Chen added that the committee hopes that the distinct musical styles of the opener and headliner will appeal to a more diverse audience.

Pre-sale tickets will be available online on March 7. During the pre-sale, tickets will be $12 for MIT students and $25 for up to two guests per student. Once regular sales start on March 27, ticket prices will increase to $15 for MIT students and $25 for MIT affiliates, guests of members of the MIT community, and local college students. For tickets, visit http://bit.ly/MitSW2011.

MIT answer delayed in Styke suit

MIT has obtained an extension on its time to answer the lawsuit filed against it by Wolfe B. Styke G. MIT’s response had been due by Jan. 14, extended to Feb. 14, and is now due on March 15.

Styke is suing both MIT and Russell J. Novello for $50,000 in personal negligence. Styke is the MIT student who was stabbed in his Next House dormitory room in October 2007 by Anna L. Tang, then a Wellesley student. Tang was acquitted by reason of insanity, and has been free since early this year.

Novello, the security guard who gave Tang the key that gained her access to Styke’s room while he was sleeping, has not yet filed an answer to the personal injury complaint. He is probably covered by the same extension to March 15.

Novello’s attorney has not returned phone calls. MIT and Styke’s counsel confirmed the extension.

—John A. Hawkins

Do you like doodling during class? Are your psets covered with drawings? If so, become a Tech Illustrator!

E-mail join@tech.mit.edu

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Supreme Court hears Stanford v. Roche
Dispute surrounds assignment of intellectual property at universities

By John A. Hawkinson

The Supreme Court heard arguments yesterday morning in Stanford v. Roche, and the justices did not indicate which way they were leaning in the university patent dispute. At issue is whether a Stanford researcher, Mark Holodny, could sign away Stanford's patent rights to an AIDS test to Cetus, a local biotech company. Holodny first signed an agreement with Stanford that he "will assign" any future inventions to Stanford. But he then visited Cetus and agreed to "hereby assign" future inventions — inventions he had not yet created at the time of the agreement — to the biotech company. Which agreement wins is a question of more than just contract law.

Because the research was federally funded, the Bayh-Dole Act of 1980 governs the handling of its intellectual property. MIT and many other universities have sided with Stanford in the case. Cetus was later bought by Roche. Stanford is appealing the case to the Supreme Court, because Roche won the last round in the United States Court of Appeals for the Federal Circuit.

Stanford's counsel, Donald R. Ayer, was initially questioned by Justice Antonin Scalia and Anthony Kennedy over how this dispute would have been resolved had there been no federal funding or Bayh-Dole Act.

Justice Samuel A. Alito sharply defined the two weaknesses in Stanford's argument: "First, that it has long been the rule that inventors have title to their patents initially, even if they make those inventions while working for somebody else."

"And the second," Alito continued, "is that you are relying on a provision that says that the non-profit organization may elect to "retain" title, which means hold onto a title that the organization already has. There's just no accepted definition of the word "retain" that corresponds to the meaning that you want to assign to that word. "Retain" does not mean "obtain."

Arguing for the Solicitor General of the United States, Deputy Solicitor General Malcolm L. Stewart, received part of the Stanford's half-hour argument time. Stewart was asked by Justice Elena Kagan and Sonia Sotomayor why the government didn't simply require the institutions to get "I hereby assign" statements from their inventors. There was no good answer.

Indeed, some universities (such as MIT), have done just that. Last spring, as this case began making its way to the Supreme Court, MIT changed the language of its inventions and Proprietary Information Agreement to "I hereby assign," instead of "I agree to … assign." MIT made the change so that if a similar dispute were to arise, it would not be in the legal position Stanford is in.

Curiously, Roche cited MIT as an example of the "hereby assign" language in argument today. Roche seemed not to be aware that MIT had changed its language in response to this case.

Roche's case was argued by Mark C. Fleming. Justices asked Fleming what would prevent an inventor and a federal contractor from conspiring to keep the rights owned by the inventor, cutting the government out of the picture, if in fact the inventor really had the power to sign away those rights.

When Fleming replied that the government could require property assignments as a condition of funding, Chief Justice John Roberts observed that such an idea could return the world to the pre-1980 situation of different government agencies having vastly different policies on intellectual property. It was because of the difficulty in navigating that regulatory landscape that Bayh-Dole was born: a way to encourage technology transfer to private industry without getting bogged down in the red tape.

The Court seems to suggest that universities should just change the language of their agreements, said Balassa Vinti, a partner at Proskauer Rose LLP who specializes in patent law. Vinti said that including the "I hereby assign" language would provide better protection than the language that is now commonplace: "I agree to assign." Chief Justice Roberts and Justice Ruth Bader Ginsburg asked the most questions, nine each: six questions for Roche, and three split between the United States and Stanford. Next was Scalia, who questioned Roche three times and Stanford and the U.S. four times. Justices Sotomayor, Kagan, and Breyer did not question Stanford, but reserved their inquiries for Roche and the United States.
John Reed, from Page 1

“You have a new Chancellor, and that’s your conduit,” said Reed, referring to Chancellor W. Eric L. Grimson PhD ’80, who assumes the chancellorship today. “His job is primarily interacting with the students.”

“THERE'S NO QUESTION IN MY MIND, I don’t care what the communication is, but there is a need for communication,” Reed added.

Reed felt that though many channels for student-administration dialogue currently exist, some of those channels may not “have worked as well as they should have.” He cited the Corporation’s Visiting Committee structure as a way for him to learn more about student life and academic issues. When questioned, Reed said that he “would ask” department heads could share Visiting Committee reports — or at least the parts that directly concern students — with the student body.

Visiting Committees meet with students, faculty, and staff from academic departments and major school divisions once every two years to provide recommendations to the Corporation and the administration.

When asked to what extent he felt MIT should imitate other schools, Reed drew on his experience as a student at MIT, expressing his feeling that the Institute need not rely on models set by other schools. But he also noted that the reality of competition for students stricts the Institute's ability to be wholly independent.

“I’m of the school that we should be very good at what we want to be and not pay a hell of a lot of attention to what everybody else wants to be,” said Reed. But he explained that MIT closely tracks admissions statistics — particularly, where students who choose not to attend MIT end up. Providing students' life amenities — like robust dining, athletics, and dormitory living — that are competitive with other schools is a necessity of the modern world, said Reed.

Reed also explained that despite students' concerns that MIT may be losing its innovative edge, MIT administrations have had a long history of advancing the Institute’s mission.

“You’re a student for a period of time and all you’ve ever seen is MIT at that time,” Reed said. “We’ve had some pretty creative, exceptional administrations. … When I was a student here, biology didn’t exist. Now, 40 percent of the school is in the life sciences.”

Also on senators’ minds were questions of MIT’s budget problems. MIT’s roughly $8.3 billion endowment and $2.1 billion in deferred maintenance costs stole the spotlight.

“About $5 billion short of where we should be to operate the Institute today,” said Reed. Last year, he added, MIT used about $660 million of endowments funds to support Institute operations. This represents about 6.7 percent of the endowment, when other factors are considered on top of 2010 of $8.3 billion figure. To be healthy, Reed said, MIT should draw only 4 percent annually to support operations.

The Chairman added that MIT may consider extending the scope of its donor base to make up for financial shortfalls.

“There’s a fair amount of money in the hands of alumni,” said Reed of MIT’s traditional donor base. He said MIT raises about $300 million annually from “people who are attached to MIT.”

“There are about nine people who are living today who are reputedly billionnaires and who graduated from MIT — and the others are going to be millionaires and who graduated from MIT — and they’re attached to MIT,” he remarked, citing e.g., a couple of donors interested in supporting research in cancer or energy.

Reed graduated from MIT in 1961 with a Bachelor of Science in course XV and obtained an M.S. in the same field with a Bachelor of Science in course XVII in 1965. While at MIT, he was a member of Lambda Chi Alpha. He has served as the chairman for the New York Stock Exchange and was chairman and CEO of Citibank and Citibank. In addition to being chairman of the MIT Corporation, he currently serves on the board of directors at the Altria Group, the parent company of cigarette company Philip Morris.

MIT Stata Center, 32-155 Desert Reception to Follow

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*Turned in petitions by late petition deadline, Feb. 28 at noon.

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Tuesday, March 1, 2011
8:00 pm, Building 26-100

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SPEAKER: Alpheus Bingham
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Wednesday, March 2 | 5 pm
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- Cabrini
- New Jersey City
- Purchase
- Hartwick

Second Round
- Mary-Harden-Baylor
- Trinity-Dallas
- Augsburg (MN)
- Webster
- Alcorn
- Gordon
- Concordia (MI)
- Way-Savanna-Pa
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- Dr. Ashley Thomas Lenihan
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Tuesday, March 8 | 5 pm
Desert reception to follow.
MIT Stata Center, 32-144
Squash finishes strong
Team ends with second place at nationals

By Joanna Kao
SPORTS WRITER

The MIT Squash team came in second (3-6) to Vanderbilt on Sunday after three days of matches at the 2011 Men’s National Team Championships this weekend. In squash, the scores indicate the number of match wins of one team’s top nine against the other team’s corresponding nine. The squash team won 6-3 against the University of Washington on Friday in the first round of competition and 5-4 against UC Berkeley during Saturday’s semifinals at Harvard. Vanderbilt came into the weekend as the underdog, but they proved themselves over the weekend by beating two teams they were not expected to win against.

“We kicked butt. We weren’t expecting such a fierce Chaffee Cup bracket, and we’re psyched to bring home a runner-up trophy. We really thought we’d sweep the division and were impressed by Vanderbilt’s showing,” said Nadeem A. Mazen ‘06, head coach. “Every match was close: U Washington and Cal Berkeley also had a great showing, and we showed great sportmanship and ads to all the way through.”

MIT’s first and fourth seeded players, West D. Hubbard ’14 and Austin C. Anderson ’12 won all three matches this weekend. Hubbard won by large margins during the semifinals and finals. There were some close matches during the finals on Sunday. Second-seeded Michael G. Zomnir ’11 lost 10-12 on the fifth game, and seventh-seeded Joseph E. Lemberg ’11 won 11-9 on the fifth game.

“We kicked butt … we’re psyched to bring home a runner-up trophy.” —Nadeem A. Mazen ’06

HEAD Coach

This weekend was the last home game for the seniors of the team. This year, the squash team will be losing four seniors, a third of their team. “We are graduating an almost unprecedented number of seniors this year,” Mazen said. “We’re psyched that the incoming recruits are growing in number and increasing in prior experience each year.”

Hubbard will travel to Dartmouth to compete individually in the College Squash Association Individual Championship this weekend.

MIT defends conference title
Men’s Swim & Dive hosts NEWMAC Championship

By Craig Kaufman
SPORTS WRITER

On the strength of seven first-place finishes, MIT increased its lead during Saturday’s finals session in the New England Women’s and Men’s Athletic Conference (NEWMAC) Men’s Swimming and Diving Championship. The Engineers raised their total to 769 points while the U.S. Coast Guard Academy maintained its position in second place with a tally of 717. Springfield College continued to rank third with 346 points. 

In the 200 medley relay, MIT’s squad of Ryan N. Terbush ’11, Michael J. Liao ’14, Wyatt L. Ubellacker ’13, and Craig B. Cheney ’14 earned an NCAA B standard with a time of 1:31.85. The relay contingent comprised of Scott A. Stephens ’11, David C. Paredi ’12, Trusman R. Sepp ’11, and Anthony Chen ’13 won the consolation final courtesy of Kevin M. Lang ’13 (53.17, fourth place) and Brett L. Rosal ’12 (52.58, fifth place), resulting in an NCAA B cut for the Engineers. MIT picked up additional points in the championship final courtesy of Kevin M. Lang ’13 (53.17, fourth place) and Brett L. Rosal ’12 (52.58, fifth place).

William C. Dunn ’14 received the first NCAA automatic qualification of the meet by finishing in 1:39.69 in the 200 freestyle. In the consolation final, Michael J. Dobson ’11 finished ninth (1:43.63) while Stephens (1:44.92, 13th) and Maxim T. Pruner ’13’ (1:45.16, 14th) came in right behind each other.

In the 100 breaststroke, MIT placed four swimmers in the top eight. Liao led the way with a first-place finish and an NCAA B cut time of 56.53, while Stephens followed in second place with 58.09.

The Engineers saw five athletes pick up points in the 200 backstroke. Terbush led the way with an NCAA B cut time of 51.80 for a third-place finish as Timothy J. Stambaugh ‘12 (52.86) and Brendan F. Liu ’13 (52.46) ranked fifth and sixth, respectively.

MIT closed the evening by breaking the meet record it set two years ago in the 800 free relay. The quartet of Deveney, Carlos R. Ribeirdham ’14, Andrew W. Pierson ’13, and Dunn clocked in at 6:50.34, which also met the NCAA provisional qualifying standard.

Men’s Basketball wins NEWMACs NCAA tournament up next

By David Zhu
SPORTS WRITER

The MIT Men’s Basketball team competed in the NewMAC tournament held at Worcester Polytechnic Institute over the weekend. The Engineers, seeded second in the field of four teams, defeated Springfield College in the semifinals on Saturday, 77-68, before upsetting hosts and top-seeded WPI on Sunday, 63-52.

Against Springfield on Saturday, the Engineers were in control the entire game. After the score was tied at five 3:15 into the game, MIT scored ten unanswered points to take the lead, which they would hold for the rest of the game. With just over two minutes remaining in the half, Springfield pulled within five, 31-26, but Mitchell H. Kates ’13 was the only player to make a field goal for either team in the rest of the half, hitting two three-pointers and a layup off a steal, to give MIT an 11-point lead at the half. The Engineers continued their momentum coming out of the break, scoring the first six points in the half. They stretched their lead as many as 20, and cruised to a 77-68 win to earn a spot in the tournament final.

Kates scored 18 of his game-leading 22 points in the first half, and Tournament Most Outstanding Player William Tashman ’13 added 17 points and 14 rebounds in the second.

The WPI team facing the Engineers in the finals on Sunday was even more evenly matched. Neither team could gain more than a three-point advantage for the first part of the half, but MIT went on to a 17-4 run to take a ten-point lead, 24-14, with just over five minutes remaining. WPI responded with 12 unanswered points of their own, and the score at halftime was 28-26 in favor of WPI.

Coming out of the break, the Engineers once again opened with six straight points. This run gave them the lead for good, as MIT made 72.7 percent of its shots from the floor in the second half. The Engineers stretched their lead to 12 with 8.30 left, and although WPI pulled within points with 5.11 remaining, MIT scored the next nine points to secure the victory.

Tashman contributed 17 more points and 10 more rebounds in the final, and William E. Bender ’12 scored 13 points off the bench for MIT.

With the win, the Engineers earn an automatic berth in the NCAA Division III Championships. This will be MIT’s third straight national tournament appearance, and they will look to improve on last year’s result, a first-round loss to DePauw University.

They stretched their lead to as many as 20, and cruised to a 77-68 win to earn a spot in the tournament final.