President Susan J. Hockfield spoke Friday about the uniqueness of the MIT community and thanked the MIT 150 steering committee for their work in putting together the MIT 150 exhibit. The exhibit floor at the MIT Museum was packed with students, alumni, and faculty. There were 657 people in the exhibit by the end of the speeches.

Museum starts MIT 150 celebration

Over sixty events, symposia to reflect “inventional wisdom”

By Colleen Loymahan

What can MIT accomplish in the next 150 years? A cure for cancer? Further explorations underwater and in space? Artificial intelligence?

The opening of the MIT 150 Exhibition at the MIT Museum on Friday marked the first of 150 days of celebratory events for the Institute’s sesquicentennial. The celebration will include symposia, performances, and exhibits reflecting on MIT’s revolutionary contributions and will explore how MIT can help shape the future.

The MIT 150 steering committee, led by David A. Mindell PhD ’96, planned over sixty events guided by the theme of “inventional wisdom.” The theme represents the entrepreneurial spirit sparked by a blend of inspiration and knowledge, explained Mindell. Many of the festivities are open to the public, fulfilling one of the goals of the MIT 150, Page 11

By Eliah Mena

MIT received a record 6,405 early-action applications this year, up 13 percent from last year. According to Dean of Admissions Stuart Schmill ’86, 772 applicants (12.1 percent) were admitted, 3,867 (60.7 percent) were deferred, and 1746 (27.3 percent) were denied.

Overall, is expected to top 17,800, about a 7 percent increase from last year. Schmill said that MIT is seeing a shift towards early action as opposed to regular decision.

“Our early action applications have risen in the last several years at a higher rate than our regular action applications,” Schmill said. “It is a general trend that more students are applying early somewhere when they apply to college.”

Admissions, Page 11

By Graham Bowley

Deep inside the Federal Reserve Bank of New York, the $600 billion man is fast at work. In a sparsely furnished office in Lower Manhattan, Josh Frost and a band of market specialists are marking the Fed’s ultimate Wall Street trade. They are buying hundreds of billions of dollars of U.S. Treasury securities on the open market in a controversial attempt to keep interest rates low and, in the process, revive the economy. To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the

By Eliyah Mena

MIT early action results (2007-2011)

<table>
<thead>
<tr>
<th>Year</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>3445</td>
<td>3105</td>
<td>1746</td>
<td>3867</td>
<td>3913</td>
</tr>
<tr>
<td>% Accepted</td>
<td>52.4%</td>
<td>51.1%</td>
<td>47.5%</td>
<td>50.3%</td>
<td>50.2%</td>
</tr>
<tr>
<td>% Deferred</td>
<td>17.8%</td>
<td>17.1%</td>
<td>17.3%</td>
<td>11%</td>
<td>11%</td>
</tr>
<tr>
<td>% Denied</td>
<td>30%</td>
<td>31.8%</td>
<td>35.2%</td>
<td>38.7%</td>
<td>38.7%</td>
</tr>
</tbody>
</table>

A Look at Wall St. trading

An inside view of Fed’s bond-buying program

By Robert McQueen

To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the

COMEDY AGAINST CONFORMITY

Vira Snatra interviews internationally-recog-
nized comedian and actor Maz Jobrani. OPN, p. 4

OUT OF THE WAY, PALIN!

Keith Yost explains who can unseat Obama in 2012. OPN, p. 5

KENDALL CHANGES?

New developments in the Central and Kendall development saga. NEWS, p. 9

A NEW LOOK AT JAZZ

The Tech catches up with Tamir Hendelman, an Israeli jazz musician from LA. Hendelman tells us about what inspires his music. ARTS, p. 6

GRANDFATHER PARADOX

What exactly does happen if you go back in time and kill your own grandfather? FUN, p. 7

SECTIONS

World & Nation . . . . 2
Opinion . . . . . . . . . 4
Arts . . . . . . . . . . 6
Sports . . . . . . . . . 12

Weekly

Page 1

Fun Pages . . . . . . .7

Sports Pages . . . . . 12

Weather, p. 2

Wed, 2/24 | 27°
Thu, 2/25 | 17°
Fri, 2/26 | 12°
Partly cloudy

Kendall development saga. NEWS, p. 9

By By Robert McQueen

To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the

By Robert McQueen

To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the

OPn, p. 3

By Graham Bowley

Deep inside the Federal Reserve Bank of New York, the $600 billion man is fast at work. In a sparsely furnished office in Lower Manhattan, Josh Frost and a band of market specialists are marking the Fed’s ultimate Wall Street trade. They are buying hundreds of billions of dollars of U.S. Treasury securities on the open market in a controversial attempt to keep interest rates low and, in the process, revive the economy. To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the

OPn, p. 3

By Graham Bowley

Deep inside the Federal Reserve Bank of New York, the $600 billion man is fast at work. In a sparsely furnished office in Lower Manhattan, Josh Frost and a band of market specialists are marking the Fed’s ultimate Wall Street trade. They are buying hundreds of billions of dollars of U.S. Treasury securities on the open market in a controversial attempt to keep interest rates low and, in the process, revive the economy. To critics, it is a Hail Mary play — an admission that the economy’s persistent weakness has all but exhausted the central bank’s powers and tested the limits of its policymaking. Around the
Biden assurs Karzai of U.S. presence beyond 2014

KABUL, Afghanistan — Vice President Joe Biden met with President Hamid Karzai here Tuesday and promised a lasting U.S. commitment to the country well beyond 2014, when NATO forces are scheduled to turn over security of the nation to Afghan forces.

“The United States, if the Afghan people want it, are prepared and we are not leaving in 2014,” Mr. Biden said during an unannounced visit to Kabul. “Hopefully, we will have totally turned over to the Afghan security forces the ability to maintain the security of the country, but we are not leaving if you don’t want us to leave.”


WikiLeaks founder said to fear ‘illegal rendition’ to U.S.

LONDON — Lawyers for Julian Assange, the founder of the WikiLeaks antisecrecy group, said on Tuesday that they would oppose efforts by a British high-security court to extradite him to the United States, arguing that he faces “illegal rendition” to the United States, risking imprisonment.

WikiLeaks antisecrecy group, said on Tuesday that they would oppose efforts by a British high-security court to extradite him to the United States, arguing that he faces “illegal rendition” to the United States, risking imprisonment.

—By Julian Assange

Goldman vows to be more open about its operations

A move that follows months of mounting scrutiny from law- makers, regulators and shareholders who worry that Goldman is the black box of the investment banking world.

As a start, Goldman restated its financial results for the third quarter, saying that its booking of revenues after the storm and into the weekend as well.

—By Julian Assange

Biden warns of North Korea

Mr. Gates warned of North Korea’s missile threat to U.S. soil, while expressing concern that Washington had consistently underestimated the pace at which the North was developing nuclear and missile technologies.

—By Julian Assange

Doctors say Rep. Giffords’ condition points to survival

A senior U.S. defense official said that when Gates asked Hu to discuss the test, it was evident to the Americans that the Chinese leaders knew of the J-20’s existence, while top civilian advisers were surprised by the query and were unprepared to answer him.

Photos of the flight of the radar-evading J-20 had been prominently posted on unofficial Chinese military websites a few hours before the meeting.

“Hu Jintao and other civilian leaders warned Gates that it “had absolutely nothing to do with my visit. ”

Secretary Robert M. Gates aimed at staging the test flight of the Chinese stealth fighter, which is the black box of the investment banking world.

—By Julian Assange

Situation for noon Eastern time, Wednesday, January 12, 2011

Extended Forecast

Today: Heavy snow, accumulating to 8-10 inches. High 31°F (-1°C). North winds increasing to 25 mph, gusts to 35 mph.

Tonight: Snow diminishing. Low 25°F (-4°C). Northwest winds at 20 mph, gusts to 30 mph.

Tomorrow: Partly sunny, High 32°F (0°C). Northwest wind at 20 mph.
Drug makers win support by Obama admin. in price dispute

By Robert Pear

WASHINGTON — The Obama administration, following a lengthy internal debate, has unexpectedly come down on the side of pharmaceutical companies that are accused of overcharging public hospitals and clinics that care for large numbers of poor people.

The administration has told the Supreme Court that the hospitals and clinics cannot sue drug companies to enforce their right to deep discounts on drugs, or to collect reimbursement from companies that overcharge.

It is a classic conflict: a political imperative for the administration — to ensure that inexpensive drugs are available to the poor people who need them — rubbing up against the Justice Department’s fear of an onslaught of lawsuits by clinics and hospitals if the Supreme Court allows them to sue.

Sara Rosenbaum, a professor at George Washington University, said the case raises the question of whether the intended beneficiaries of a government program can enforce their right to assistance that is made available by Congress.

“You can parse the legal issues, as the Justice Department has done,” Rosenbaum said. “But the bottom line is that a lot of poor people and a lot of safety-net providers are not getting the discounts they are supposed to receive.”

The court is being asked to rule in a lawsuit brought by Santa Clara and Santa Cruz Counties in California against AstraZeneca and a number of other drug makers.

Presidential panel urges more oversight of offshore drilling

WASHINGTON — The presidential panel investigating the 2010 oil spill in the Gulf of Mexico recommended Tuesday that Congress approve substantial new spending and sweeping new regulations for offshore oil operations at a time when the appetite for both is low.

Releasing its final report, the commission found that the Deepwater Horizon explosion and subsequent oil spill arose from a preventable series of corporate and regulatory failures. It warned that unless industry practices and government regulation improved, another such accident was inevitable.

“If dramatic steps are not taken,” said Bob Graham, a former Democratic senator from Florida and co-chairman of the commission, “I’m afraid at some point in the coming years another failure will occur, and we will wonder why did the Congress, why did the administration, why did the industry allow this to happen again.”


Rising Chinese inflation to show up in U.S. imports

BEIJING — When garment buyers from New York show up next month at China’s annual trade shows to bargain over next autumn’s fashions, many will face sticker shock.

“They’re going to go home with 35 percent less product than for the same dollars as last year,” particularly for fur coats and cotton sportswear, said Bennett Model, chief executive of Cassin, a Manhattan-based line of designer clothing. “The consumer will definitely see the price rise.”

Inflation has arrived in China. And after Tuesday’s release of crucial financial statistics by China’s central bank, few economists expect Beijing officials to be able to tame rising prices any time soon.

—Keith Bradsher, The New York Times

Clinton talks politics in Yemen

SANAA, Yemen — The Obama administration wants to help Yemen do more than hunt down Islamic terrorists, Secretary of State Hillary Rodham Clinton told this fragile Arab country on Tuesday as she sought to broaden a relationship almost wholly defined by American concerns that Yemen is a staging ground for plots against the United States.

Clinton, the first secretary of state to visit Yemen since James A. Baker III in 1990, undertook a delicate balancing act, gently prodding the country’s longtime autocratic president, Ali Abdullah Saleh, to open up his political system while leaving no doubt that he remained a crucial partner in the fight against Islamic extremism.

—Mark Landler, The New York Times

You are cordially invited to share in a Celebration of Life & Love at the Wedding of

M and P

Friday, the Fourteenth of January
Two Thousand Eleven
At Seventeen Past Noon
In the Grand Wedding Hall, Room Seven One-Hundred
Massachusetts Institution of Technology
Cambridge, Massachusetts
Black Tie Optional
Reception and Cake to Follow

MIT MYSTERY HUNT
http://web.mit.edu/puzzle/www/

Sponsored by LfF
LETTERS TO THE EDITOR

@MITStudents
Twitter account

Stan Gall's Jan. 5 article on "Tweeting at the Time" provided a good overview of the use of Twitter by students and MIT organizations. We would like to clarify the statement that "None of the major MIT organizations tweet..." — a claim we've mentioned reading out to the students.

In fact, @mitstudents has been in existence since June of last year. @mitstudents is used to tweet and retweet announcements, updates and information related to student life and learning at MIT and formally targeted to current undergraduate and graduate students. It is operated by the Offices of the Dean for Undergraduate Education, Graduate Education, and Student Life.

We see the Twitter account as one of several ways to enable better information sharing with students. Also, by retweeting content from accounts across MIT, students get student-related information by following a single account and also become aware of Twitter accounts they may want to follow. The recent student and student-organized tweets also appear on the Student Life and Events RSS feed (http://mit.edu/student/) which is available from the MIT homepage.

Anna Babbi Klein, due communications

CORRECTIONS

An article published on Jan. 5 about the MIT Libraries' Twitter account incorrectly stated that tweets are often made once a day, but rarely more to avoid overwhelming followers. According to Twitter, tweets are often made once a day, but rarely more to avoid overwhelming followers.

CORRECTIONS

The @mitstudents Twitter account has been in existence since June of last year.

INTERVIEW

Comedy against conformity

By Nina Sinatra

The most successful people pursued their hobbies and turned them into careers.

Axs of Evil Comedy Tour and its solo tour, "Brown and Friendly," and held many roles in both. He has directed movies including music videos such as The Interpreter, Friday After Next, and 13 Going on 30.

I had the opportunity to chat with Maz about his comedy, accomplishments thus far and some future plans for 2011.

Nina Sinatra: What makes you laugh? Maz Jobrani: My 2 1/2 year old. But he also makes me cry.

NS: As a comedian, you are able to use humor to communicate with your audience about complex cultural themes. In your experience, how do you have the social roles of Middle Eastern-Americans changed over the past few years?

Maz Jobrani: We are making some progress. It seems like every minority or ethnicity goes through a period of being laughed at. Maz Jobrani has been born in Tehran and moved to America at the age of 18. He started his comedy career as a writer for television shows and films — including a role as an advisor at an advertising agency where he asked me if I'd considered trying it professionally. I told him I was going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

NS: As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?

Maz Jobrani: As my mentor I was a big fan of Edie Murphy as a kid, but I wanted just because he was the biggest superstar back then. As he went into starting a solo tour, I thought, I also get to be creative and setting the standard. Just go for it. I'm going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

NS: As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?

By Nina Sinatra

Students and organizations at MIT have recognized the importance of ethnic diversity, and the need to create a more inclusive campus environment.

Subject Line: "Thank you, dear students..."

As a comedian, you are able to use humor to communicate with your audience about complex cultural themes. In your experience, how have the social roles of Middle Eastern-Americans changed over the past few years?

The most successful people pursue their hobbies and turn them into careers.

As for my mentor I was a big fan of Edie Murphy as a kid, but I wanted just because he was the biggest superstar back then. As he went into starting a solo tour, I thought, I also get to be creative and setting the standard. Just go for it. I'm going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?

By Nina Sinatra

As for my mentor I was a big fan of Edie Murphy as a kid, but I wanted just because he was the biggest superstar back then. As he went into starting a solo tour, I thought, I also get to be creative and setting the standard. Just go for it. I'm going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?

By Nina Sinatra

As a comedian, you are able to use humor to communicate with your audience about complex cultural themes. In your experience, how have the social roles of Middle Eastern-Americans changed over the past few years?

The most successful people pursue their hobbies and turn them into careers.

As for my mentor I was a big fan of Edie Murphy as a kid, but I wanted just because he was the biggest superstar back then. As he went into starting a solo tour, I thought, I also get to be creative and setting the standard. Just go for it. I'm going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?

By Nina Sinatra

As a comedian, you are able to use humor to communicate with your audience about complex cultural themes. In your experience, how have the social roles of Middle Eastern-Americans changed over the past few years?

The most successful people pursue their hobbies and turn them into careers.

As for my mentor I was a big fan of Edie Murphy as a kid, but I wanted just because he was the biggest superstar back then. As he went into starting a solo tour, I thought, I also get to be creative and setting the standard. Just go for it. I'm going to wait till my 30s to give it a try. He took me into his office and told me, "Look, I'm in my 60s. When I was in my 20s there were some things I never did. I never got around to doing them. So if you really wanna do it, do it now!"

As a comedian and actor, you have the opportunity to work on a wide variety of projects. Which have been your most memorable? Your most challenging?
Republicans need a fresh candidate to do well in 2012

Daniels, Pawlenty, and Thune will give Romney and Huckabee a run for the GOP ticket

By Keith Yost

Staff Columnist

Intrade.com is an online prediction market that tracks, among other things, U.S. political outcomes. In the aftermath of a bruising defeat of Congressional Democrats, Intrade predicts more of the same in 2012. The market currently gives Republicans a 3 in 5 chance of retaining control of their newly acquired House, and roughly a 2 in 3 chance of taking over the Senate.

Despite giving several buy recommendations on Republican futures, Intrade’s markets are bearish on at least one GOP prospect: the White House. Even as Intrade views Democrats dimly, Obama is given a 57 percent chance of serving a second term.

Perhaps Intrade credits the GOP’s lack of presidential chances to the potential candidacy of Sarah Palin. According to the market, the former Alaskan governor has an 11 percent chance of winning the nomination, but a recent CNN poll has her losing to Obama 52-44 in a nationwide matchup.

Daniels is a thoughtful public speaker, but he lacks the charisma that is normally associated with presidential runs.

However, the Palin-spoiler effect alone does not seem to be enough to explain a 57-43 advantage. After all, the same CNN poll has Obama trailing against other Republicans 49-43.

Nominally, he hews to socially conservative views, but Daniels is not particularly bad candidates like Mrs. Palin that Intrade believes will lose to Obama.

Who he is

Mitch Daniels

Who he is: A former director of the Office of Management and Budget, a graduate of both Princeton and Georgetown, and the current (and popular) governor of Indiana, Mitch Daniels is an accomplished budget balancer. Nicknamed “The Blade” by Bush during his budget cutting days in Washington, as governor Daniels turned a $800m deficit into a $3.1b surplus from 2004-2008.

Why he might lose: Daniels is a thoughtful and articulate public speaker, but he is just over 64 years old. Arab American lacks the mob-utility charisma that is normally associated with presidential runs. Normally, he hews to socially conservative views, but Daniels is not comfortable with social issues, which will make it difficult for him to draw social conservatives to the polls.

Why he should run: Mitch Daniels is a singularly competent budget wonk. The odds are good that the federal deficit will be the number one issue on voters minds in 2012, and Daniels’ resume reads like he was built in a lab to tackle just such a problem. His willingness to compromise will not endanger him to Tea Party types today, but give it time — after a term or so of frustrating battles in Congress, Daniels will look less like a fiscal fireman and more like the man for the job, not just to the Tea Party, but to the nation.

Pawlenty

What are your plans for this year? Are you considering a run for the White House in 2012, and Daniels’ resume reads like he was built in a lab to tackle just such a problem. His willingness to compromise will not endanger him to Tea Party types today, but give it time — after a term or so of frustrating battles in Congress, Daniels will look less like a fiscal fireman and more like the man for the job, not just to the Tea Party, but to the nation.

Why he should run: Pawlenty has executive ability and a strong reputation for budget cutting, but his main asset is the ability to inspiringly deliver the conservative message without resorting to the extremes of rhetoric that turn off centrists. Wit, passion, and a talent for retail politics — more so than any policy mix — may prove to be just what the party needs to unite its disparate poles.

John Thune

Who he is: The junior senator from South Dakota. Thune earned his seat in a tough campaign against former Democratic powerhouse Tom Daschle. Thune is recognized as the winner of the “invisible primary” — if the next presidential candidate was hand picked by party leaders, Thune would head the GOP’s 2012 ticket. He has built a funding network, gathered together a team of operatives, and earned the backing of several guns rights groups (many of them friends in the Senate) — only F Koreans will go into the race better armed than Thune.

Why he might lose: if John Thune wins the nomination, Republicans would have to hope for a right wing wave or a left wing gaffe to squark the South Dakota past Obama. Thune is a highly competent candidate, but his politics, even amid today’s conservative resurgence, are quite a bit to the right of the American public. He has been deeply conservative during his time in the Senate (in 2009 he was ranked the sixth-most conservative senator), and is unlikely to move up to the political center in a nationwide election.

Why he should run: Thune might be next to hopeless as a presidential prospect, but his spot atop the ticket will give a two or three point boost to every conservative running in every race in the nation. Thune’s conservative bona fides are strong enough to bring out the Republican base in droves, but to liberals he comes off as genial Midwesterner — Democrats might not like his politics, but they’ll have a hard time buildling Thune into the sort of bogey man that will bring their own flock to the polls. The disparity in turnout between the bases might not mean much to Thune, who will surrender independents (and the election) to Obama, but for every Republican sitting down ticket of Dan, the advantage of having their side turnout while the opposition sits at home will be pronounced.

Maz Jobrani talks with The Tech

Comedian behind “Brown and Friendly” speaks on his upcoming projects

Jobrani, from Page 4

haunting. The film “Friday After Next” was an amazing. But I’ve got to say that sometimes for standup, I love doing shows in big the-
Interview

Destinations and playgrounds

Tamir Hendelman gives The Tech his unique musical perspective

By Sam Markson
ASSOCIATE ARTS EDITOR

Tamir Hendelman is a young Israeli musician and a product of the Los Angeles jazz scene. His latest Boston performance at Sculler’s Jazz Club was particularly lively, with Tim Horner on drums and Martin Wind on bass. Hendelman’s music is quite accessible, and he does a particularly good job of combining various musical influences together. Credit should also be given to Horner and Wind, who gave a decisive edge to the sound. Tamir Hendelman has two recordings released to date: 2006’s Destinations with Lewis Nash and Marco Paonessa, and 2008’s Playground with Jeff Hamilton and John Clayton.

Hendelman took the time to talk with me after his Thursday, Jan. 6 show at Sculler’s. The Tech: I wanted to talk a little about the influence of location, culture, politics, and history that factors into your work — how you’re trying to get it across, what you find beautiful in it, and what is beyond just the technicality of the music you’re trying to say.

Tamir Hendelman: Well, the beautiful thing about music and about playing jazz, and playing with music all over the world, is that music kind of transcends any kind of boundaries. National boundaries, ideas of different things — so it’s like a heart-to-heart kind of thing. I came to LA when I was 19, and I had a very happy childhood in Israel, and then it was a really nice adventure of discovery to be in this huge country, all the opportunities, and so on. And one thing that I don’t do much is read the news. Usually there is music that is designed to make people feel or separate them from each other and things like that, so I think one of the things I try to do with my music is to connect people and share, and just share the joy of the communicat-

Hendelman: I mean, on my recording, the drummer is from New York, originally from Arizona, the bass player is from Italy, Martin’s from Germany, so who cares?

TT: What have you been listening to recently? Do you focus on one thing for a while, or are you all over the place?

Hendelman: Yeah, sometimes I’ll just hear a tune and write it, or sing it, record it, or play it if I move around with developing it in different ways. Sometimes I’m just writing an arrange-

TT: You see, in terms of future music, places where music is coming from — mo-

When I was in Europe it was so excited to hear some of the local groups...there was a great 18-year-old bass clarinetist that did a duet with a guitar and a bass. There’s just so many combinations out there, and of course now with YouTube-you can explore all day, so it’s giving me some ideas of where I want to take the next step of the journey.

Note: Hendelman is a young Israeli musician and a product of the Los Angeles jazz scene. His latest Boston performance at Sculler’s Jazz Club was particularly lively, with Tim Horner on drums and Martin Wind on bass. Hendelman’s music is quite accessible, and he does a particularly good job of combining various musical influences together. Credit should also be given to Horner and Wind, who gave a decisive edge to the sound. Hendelman’s music is inspired by his love of all these different musics. Combined classical and jazz, for example, in the middle of the 20th century, there was this period where a lot of the classical composers were writing this very atonal music, and it was becoming very not accessible. And then later on people started coming back to harmony, coming back to melody, things that you could sing or things that had a color that you could feel — but combining things in different ways. Combining classical and jazz, for example. When I was in Europe I was so excited to hear some of the local groups...there was a great 18-year-old bass clarinetist that did a duet with a guitar and a bass. There’s just so many combinations out there, and of course now with YouTube-you can explore all day, so it’s giving me some ideas of where I want to take the next step of the journey.
Crossword Puzzle

Solution, page 9

ACROSS
1 Cash-back come-ons
8 Run playfully
15 Quintessence
16 Greek cafe
17 Invigorate
18 Ice-breaking remarks
19 Old Turkish title
20 Goldbrick
22 Boozer
23 Informad
25 Blackthorn berries
26 Hollow cylinder
27 Sees a mental picture of
29 More inadequates
30 Makes certain
31 Action of endearment
32 Swinging freely
34 S.A.G. word
37 Athenian philosopher
41 World-weary
42 One of Sri Lanka's languages

DOWN
1 Interacts
2 Mediocre imitator of an artist
3 Cookie or mussel
4 Swallowed
5 Heavy weights
6 Light-sensitive photographic coatings
7 Resembling a calyx
8 Stirs up, as a fire
9 Caraveral and Coral
10 Affirm solemnly
11 Restroom sign
12 Take for granted
13 Don's judge's garb
14 Scan-line patterns
24 Arrange
28 Cubic meter
30 Classic Gino Ternary film
31 Red dye from insects
33 Strong persistent desires
34 Kidnaps
35 Conclusion
36 Small, bushy-tailed monkey
38 “I Was a _____ Werewolf”
39 Stuff of wills
40 Marine bottoms
42 Guarantee
43 Stadium top, often
44 Mold, mildew and smut
45 Breitie
46 Dos Passos trilogy
47 Joining together
48 Like slasher movies
49 Slap the cuffs on
50 Longhand writing style
51 Intl. distress letters
52 Newborn child
53 Strange, as a sound
54 ABaAabAB rhyme scheme
55 Stored, as an automobile
56 Perceptual
57 Foxy characteristic

SWEATSHIRTS, POLOS, HATS AND MORE

web.mit.edu/mitei/iap

JANUARY 12-14 HIGHLIGHTS

Wednesday, January 12, 2011

UN Climate Roundtable: A Discussion of International Climate Governance
10:30-11:30am, 5-231

Tour of Energy Features of Sloan E62
1-2pm, 2-3pm. E62 (new Sloan) lobby

Energy careers: a panel featuring MIT alumni
5-7pm. 32-155

THURSDAY

Primer on transportation fuels
9am-4pm. 56-114

Residential energy savings (featured lecture)
6:30-8pm. 32-141

FRIDAY

Wind Energy 101 seminar
11am-12pm. 3-133
## Easy Sudoku
Solution, page 9

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

## Hard Sudoku
Solution, page 9

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>6</td>
<td>3</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>4</td>
<td>8</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>5</td>
<td>7</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td></td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>5</td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>8</td>
<td>3</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>2</td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

---

**LEARN TO FIGURE**

**SKATE THIS IAP**

Weekend mornings all IAP

**SATURDAYS**

Freestyle Lessons:
9:30-10am*

Ice Dance Lessons:
10:15-10:45am

**SUNDAYS**

Freestyle Lessons:
12-12:30pm

Beginners welcome!

**FREE group lessons with the MIT Figure Skating Club!**

Note: *Figure* skates and an MIT athletic card are required.

Rental skates available for $1

Interested in skating more? Join the Skating Club. Full schedule and info:


Email skating-admin@mit.edu with questions

*Plan to arrive by 9:15 to get skates on and warm up*
The city will be hiring a consultant to run the study and is in the process of preparing a Request for Proposals. The RFP is expected to be released on Thursday, according to Susan Glazer, the assistant city manager for community development. Once that RFP is released and bids are submitted, the study will proceed. The city zoning changes for Kendall may have to wait — Cambridge has ordered a new study of that height. The zoning currently limits buildings in Kendall to be 120 feet tall.

MIT also proposed sidewalk cafes, but Thomas Amininger, vice chair of the board, does not think that is plausible. "Plains with cafes sitting outside are to me some sort of a Euro fantasy," Amininger said. "I don't see that here. We don't have that here in Cambridge. We don't have it in Boston. It's very rare in this country. I'm not sure you can recreate that here."

Other board members were worried about residential units, which barely figured into MIT's plan. Charles Studier, a member of the board, said "additional residential development is what is going to generate the vitality and vibrance. It's been proven in case after case, you have to have people living in an area to make it interesting and worthwhile." MIT's presentation suggested 60 units of market-rate housing, rather than subsidized housing. Other members were worried about the streetscape, and others cautious. All had criticisms to offer. The City of Cambridge Planning Board. The response they got was mixed, with some of the five members present expressing comfort with the proposal, and others cautious. All had criticisms to offer.

On Dec. 21, MIT representatives presented MIT's vision for the development of Kendall Square to the City of Cambridge Planning Board. The response they got was mixed, with some of the five members present expressing comfort with the proposal, and others cautious. All had criticisms to offer.

The day following the CJAC meeting, MIT Corporation met to discuss the committees' final reports. According to Jensen, dinging, was not on the meeting's original agenda, but Corporation members spent about as much time discussing dining as they did discussing some Visit- ing Committee reports, especially if dis- cussions during lunch and various breaks are included. Among other things, Visiting Committees provide recommendations and advice to the Corporation on every academic department.

After several comments and explana- tions on dining, the discussion ended after it appeared that everyone was generally satisfied with how dining was being han- dled by the administration, noted Jensen.

The new dining plan, which will be implemented in fall 2011, will require stu- dents living in "dining dorms" to pay for all their meals up-front at the beginning of the semester. Previously, students paid a $300 semesterly fee to receive meals at half- price. But under the new plan, students will pay a fee ranging from $2,560 to $4,540 per year, depending on the dining hall and meal option chosen by the student.

Can you beat this drawing? Join Illustrators at The Tech!

E-mail join@tech.mit.edu
Up to 90% off used textbooks

Millions of used listings all backed by our A-to-z guarantee

amazon.com/textbooks
Applications shift toward early action

MIT 150 to feature symposia, Charter Day event
“Emotional center” of celebration to happen on April 10 at Boston Convention Center

MIT 150, from Page 1

celebration—to educate and inspire—will unfold about science and technology.

According to Mindell, the steering committee focused on emphasizing ideas of research and education.

A series of symposia developed by teams of MIT Faculty will explore interdisciplinary issues and topics accessible to a world audience. The purpose of the symposia is to bring intellectual leaders from MIT and beyond to examine global issues through panel discussions.

The series of symposia begins Jan. 27 with “Economics and Finance: From Theory to Practice to Policy.” According to the MIT 150 website, topics will be covered during the seminars including integrative career research, women in science and engineering, the age of computation, exploration of earth, air, ocean, and space, and brains, minds, and machines.

The “emotional center” said Mindell, of the 150 days will be on April 10, when over 10,000 people will gather at the Boston Convention and Exhibition Center to celebrate MIT’s Charter Day. According to Mindell, the symposium will culminate in the highest level of achievement of the World Culture and Intellectual Accomplishments. This New Century Convocation will recall the 1949 Mid-Century Convocation and honor the students who received an awarded academic event. Guest speakers will underscore MIT’s role within the world and the responsibility of its students and faculty to take action about the challenges of the future.

“The best tribute we can make to MIT is to continue to progress in the future,” Mindell said.

Mindell expects the 150th anniversary event to bring together a diverse, interested audience with a renewed desire to surmount obstacles regarding human well-being as well as to rekindle the optimism of discovery and promise in this generation’s forthcoming thinking activities.

“How people gain an appreciation for MIT, both in its history and the breadth of its achievements, and understand what is special and unique about MIT, I think that it is the hope people will look back on this period and see that MIT has redefined itself.”

“In a time of economic uncertainty, we must help the community move forward, and that’s what we’re trying to do,” Mindell said. The information contained within the MIT 150 Exhibition, “the most expansive exhibition ever developed by the MIT Museum,” according to the Museum’s website. Exhibit curator Deborah Douglas collaborated with the MIT community through a nomination and voting process to arrive at the 150 objects currently on display. Douglas said that each object talked to that is meant to inspire and educate.

At the exhibit’s opening on Friday, President Susan H. Hockfield said that the objects as a whole described “the vision that is MIT.”

The exhibit has “many objects that are brilliantly bold, and others that are perfectly ridiculous,” Hockfield said.

In the words of MIT Museum Director John R. Durant, “MIT is an idea factory, which is also a place that keeps reinventing the future. You can see 150 years of reinterwoven futures in this exhibition, including futures which are still to come.”

Other major MIT 150 events include the Open House, the MIT Global Challenge, and the Infinite History Project. See http://mit150.mit.edu/ for more information and registration for symposia.

The celebration concludes with Tech Day on June 5 and reunions after Commencement.

John R. Durant, Director of the MIT Museum and Historical Collections, spoke Friday at the opening of the MIT 150 exhibit, giving perspective on the process of creating the exhibit. He spoke about the project’s goals and the purpose of the symposia. The committee work that had to bring back a slice of MIT’s brain, one of the most studied brains in the world, from California and joked with the audience, asking them to imagine going through airport security with a slice of a brain.

Applications shift toward early action
Maseeh Hall increases number of accepted early action applications

Admissions, from Page 1

Though the number of early applicants has increased, the number of students who have applied has also increased. This year, MIT accepted 12.1 percent of those that applied during the early action. In comparison, MIT accepted only 4.1 percent for the class of 2014 and 10.8 percent for the class of 2013.

In an MIT Admissions blog post on Jan. 7, Admissions Counselor for Communications Chris Peterson said that he believes early action to be due to the shift towards early action, particularly among domestic applicants.

Peterson explained that historically, only one-third of domestic applicants apply early action. “Today, however, and especially during Early Action,” he explained, “So the number of students whom we accepted in Early rose accordingly.”

Part of the increase in early applications is also due to the opening of Maseeh Hall, MIT’s newest undergraduate dormitory, which will open next fall. MIT’s undergraduate admissions office is expected to open 150 new dormitory beds. The new dorm is expected to house about 4,500 students, roughly 200 more than there are currently on campus!

“We are planning a smooth ramp up to that number, taking three years to get here,” Schmitt said. “For next fall, our target enrollment is 11,200, just 50 students more than the class of 2014.”

A record 1,746, or 27.3 percent, of early applicants were rejected outright, continuing a two-year trend to offer a “final decision (admitted or not admitted) to many more students.” Peterson wrote. Last year, MIT rejected 988, or 17.4 percent of its early applicants. However, in years past, MIT consistently rejected only around 10 percent of its early applicants.

The format of the application remained the same as that of the previous year, where the 700-word essay became a single 500-word essay to three 250-word essays. Schmitt said that they liked the change and thus keep it in place.

The demographics of those accepted early are similar to that of the current undergraduate population. Twenty-seven percent of those accepted are underrepresented minorities (African American, Hispanic, or Native American) and the gender ratio is nearly fifty-fifty.

Some competitive universities also saw increases in the number of students applying early. In particular, the University of Pennsylvania, Cornell University, and Duke University observed an application increase of 19 percent, 12 percent, and 11 percent, respectively, in their binding early decision programs. Binding programs request students to attend the college if they are accepted.

Some universities, however, did not see an increase in their applicant pool. At Yale University, the number of early applicants remained nearly identical to that of last year. At Brown University and Cornell University, the number declined 2.5 percent and 3.8 percent, respectively.

Market rates rise with Fed bond program

Bonds, from Page 1

world, some warn the unusual strategy will weaken the dollar and lead to crip-pling inflation.

But inside the Operations Room, on the ninth floor of the New York Fed’s fortresslike headquarters, there is no time for second-guessing. Here the second round of what is known as quantitative easing—or QE2, as it is called on Wall Street—is being put into practice almost daily at the central bank’s powerful New York arm.

Each morning Frost and his team face a formidable task. They must try to buy Treasuries at the best possible price from the sovereign bond traders in the business. The smallest miscalculation, a few one-hundredths of a percentage point here or there, could unsettle the markets and cost taxpayers dearly. It could also embolden critics at home and abroad who say QE2 represents a dangerous expansion of the Fed’s role in the market.

“We are looking to get the best price we can for the taxpayer,” said Frost.

Whether Frost will reach that goal is uncertain. What is sure is that market in- terest rates have risen, rather than fallen, since the Fed embarked on the program in November. That is the opposite of what was supposed to happen, although rates might have been even higher without the Fed program.

Frost’s task is to avoid paying top dollar for bonds that could be worth less when the Fed tries to sell them one day. Frost and his team drew up the daily schedule for what the Fed calls its Large-Scale Asset Purchase program. And that program is, by any measure, large scale: Through next June, these traders will buy roughly $75 billion of Treasuries a month — on top of another $30 billion it is rein- venting in Treasuries from its mortgage-related holdings.

But depending on daily market condi- tions, Frost can decide not to buy certain bonds if they are already in short supply. As offers to sell Treasuries flash on a bank of trading screens, a computer algo- rithm works out which ones to accept. The computer compares the offers from Wall Street against market prices and the Fed’s own calculation of what constitutes a “fair” market price.

When deciding the program, Frost and his team decided to focus most on buying Treasuries with an average maturity of five to six years. That is because the yields on these notes have the biggest impact on interest rates for mortgage holders, com- sumers and companies issuing debt, and on banks’ decisions to lend to businesses. Over the weeks and months of the pro- gram, its purchases should drive up the prices of these securities — because they will be in greater demand — and conse- quently push down their yields.

The trouble is, though yields fell sharply by August and November as the markets anticipated the new program, they have risen since then, leaving many in the markets puzzled about the value of the Fed’s bond-buying program.

Frost, and his boss, Brian P. Sack PhD ’97, insist the program has succeeded. Sack, 40, joined the Fed 18 months ago to run the entire markets group. He has a PhD from MIT and worked most recently for a Washington consulting firm. In 2004, he wrote a paper with Ben S. Bernanke PhD ’79, now chairman of the Federal Reserve, and another economist about unconventional measures for stimulating the economy in extraordinary times — just like large-scale purchases of Treasuries.

“We are looking to get the best price we can for the taxpayer,” said Frost.

Whether Frost will reach that goal is uncertain. What is sure is that market interest rates have risen, rather than fallen, since the Fed embarked on the program in November. That is the opposite of what was supposed to happen, although rates might have been even higher without the Fed program.

Is there anyone you want to shadow for 24 hours? We’re looking for writers to follow someone around for a day and write about it! It’s a great way to make connections on campus!

Join Campus Life @ The Tech!
Engineers fall 73-56 to Babson at NEWMAC opener, face WPI next

Despite early leads, Babson widened gap during 2nd half

By Greg McKeever

The MIT men's basketball team hosted Babson in its NEWMAC opener on Saturday. Despite four Engineers finishing in double-figures, Babson connected on nearly 52 percent of its shots to hand the nationally-ranked No. 19 Engineers a 73-56 loss, their third in four games.

The two teams exchanged leads for the first ten minutes, and the score was tied at 15 with 9.41 left in the half. Two minutes later, however, Babson scored eight unanswered points, leading to a 10-4 run to close the half.

A William Tashman '13 layup to open the second half scoring cut the MIT deficit to just five, but Babson responded with five straight points to build a 38-28 lead less than a minute into the second stanza. Back-to-back buckets by Nicholas A. Davis '14 later in the frame brought the Cardinal and Gray within four points of the lead. From there the Engineers would see their visitors score 13 of the next 16 points over a 6:27 stretch to open up a 14-4 advantage.

Babson consecutive three-pointers with 8:03 to go, increasing their lead to 53-39. Tech would get as close as eight on a few occasions down the stretch but could not chip away at the Babson lead any more than that, dropping its conference opener for the first time since the 2006-07 season.

Davis and James D. "Jimmie" Karusk '12 topped the scoring column for the Cardinal and Gray with 21 points apiece. Mitchell H. Kates '13 scored 11 points while adding seven boards and six assists. Tashman also finished with 11 for Tech.

The Engineers will look for their first league win on Wednesday, Jan. 12, when they travel to WPI for a 7 p.m. game.

Men's swim wins 219-78; stays undefeated

Women win 12 of 16 events with a 205-94 victory against Wheaton, with Rogers, Murphy, Koksenpger: Hu beating the Lions at 200 yard medley

By Craig Kauffman

The MIT men's and women's swimming and diving teams traveled to Wheaton College last Thursday for their first meet of the year.

In the 16 events at the meet the men's team won all 14 of the swimming events and only dropped first place points in the two diving competitions en route to a 219-78 victory, keeping their undefeated record this season intact.

MIT started the meet with a bang by seeing their top three foursomes go 1-2-3 in the first event. Ryan N. Trenthall '12, Tosiian R. Sepp '11, Michael J. Liao '14, and William C. "Cathy" Dunn '14 won the 200 yard medley relay in 1:35.97.

Dunn also joined Carlo R. Biedenharn '14, Anthony Chen '13, and Brendon F. Liu '14 in the 4x100 medley relay, in 3:15.40. Earlier in the meet, the MIT freshman won both the 50 yard (21.15) and 100 yard freestyle (46.90) events.

Biedenharn also picked up two victories for the Engineers. The freshman won the 500 yard free in 4:55.61 and the 200 yard free in 1:48.09, both events in which MIT took the top three places. Freshman Jeffrey Lin also won two individual events. He swam to victory in the 200 yard breaststroke in 2:10.35, then took the 200 yard IM crown in 2:00.48.

Ron Rosenbloom '13 was the final multi-event winner for the Engineers. Rosenbloom won the first of three events to place in the 100 yard backstroke, winning the event in a time of 53.86. He would go on to take the 200 yard backstroke in 1:58.33, followed by three more of his MIT teammates.

Lisa excelled in the 100 yard breaststroke, with a winning time of 1:00.74, the only result under a minute. Maxwell T. Prunier '13 was the distance winner for MIT, swimming to a victory in 10:17.16 in the 1000 yard freestyle. Tosiian saved the 100 yard medley for his third win in the event.

Christine K. Rogers '14, Colley L. Murphy '14, Anna S. Koksenpger '13, and Elina L. Hu '13 beat the Lions' X squad with a time of 1:49.70.

In event 3, Engineer freshman Sarah A. Weiss '14 won the 1000 yard free in 11:09.79. Weiss won two of the next three events, but Rogers took the 100 yard back in 1:53.16, and Koksenpger sprinted to victory in a 2:04.80 second 50 yard freestyle.

Koksenpger also won the 100 yard freestyle (53.24), while Rogers and Fossiek took first and second respectively, in the 200 yard breaststroke. Alexandra Hall captained the 200 yard freestyle for Tech in 1:56.86, with Weiss winning second place points.

MIT took the top three spots in the 100 yard butterfly with the victory going to freshmen Joanna R. Yeh '14 (1:00.53). The Engineers also grabbed the top three places in the 200 yard IM, led by Kokenspger (2:13.64), Fossiek (2:14.94), and Allison M. Abu '12 (2:23.46). In diving competition, Elizabeth L. Staveley '11 and Elise A. Stave '13 went 1-2 in the 1 meter, followed by three more of his MIT teammates.

Both teams will be back in the pool when they travel to Colby College on Saturday.