Big, Hopeful Crowds Gather to Watch Obama’s Inauguration

By Greg Steinbrecher

As President Barack Obama took the oath of office at yesterday’s inauguration, hundreds of members of the MIT community looked on from lecture halls and communal spaces. Students expressed a cautious optimism for the future.

Employees not normally free midday were given breaks to watch the event, which was broadcast in five lecture halls. A crowd of watchers filled 32-123, with some sitting on the floor, and about a hundred people turned out to watch the events in the Ashdown dining hall.

Students who watched the inauguration expressed cautious optimism in Obama’s prospects for leading a nation through a time of crisis. Dima Ayyash ’12 was born in Palestine and thinks that Obama will improve America’s image abroad. She looks forward to American troops’ withdrawal from Iraq, although she said a presence in Afghanistan will help stabilize the Middle East. But in “the bubble of MIT,” Ayyash said she doubted Obama would do much to affect her life.

Inauguration, Page 13

Apollo 17

Moon Rock Reveals Magnetic Beginnings

By Kenneth Chang

The lasting impression left by the Apollo missions is of a moon that is gray, dusty, desolate and dead. But instruments left behind by Apollo astronauts recorded moonquakes and wobbling in its rotation that gave hints of a still molten core.

Now, a rock collected more than 36 years ago during Apollo 17, the last human visit to the moon, reveals that the molten core may have once churned and generated a magnetic field.

Green that lava plains on the far side of the moon used to contain a volcanic past that may have lasted nearly 2 billion years, “I don’t think it’s that surprising,” said Ian Garrick-Bethell G, who just finished his doctorate at the Massachusetts Institute of Technology.

Nonetheless, the findings of Garrick-Bethell and his colleagues, which appear in the current issue of the journal Science, may help resolve a longstanding debate.

Moon, Page 12

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Moon, Page 12
A Break From the Snow, But Not From the Cold
By Angela Zeluck

After receiving 12.4 inches of snow at Logan Airport this past Sunday and Monday, Boston could see a break from the snow. Luckily, the weather looks free of precipitation over the next week. Friday will be the warmest day in two weeks, with the high temperatures looking to reach 40°F (4°C). Otherwise temperatures will remain below freezing, not giving the snow already on the ground any chance to melt. Another shot of cold air invades us on Sunday, with temperatures falling to 10°F (-12°C).

For those going on the Graduated Student Council ski trip to Sunday River, Maine, Friday and Saturday look to be decent skiing days, with highs in the upper 20s. The wind picks up Saturday afternoon, then temperatures will plummet Saturday night and Sunday morning. The low Sunday morning, running a low of -15°F (-26°C), and the high will struggle to reach 0°F (-18°C). With such low temperatures, it is extremely important to dress warmly and cover all exposed skin, as well as take frequent breaks to warm up inside.

Extended Forecast
Saturday: Mostly cloudy. Low 20°F (-7°C). High 29°F (-2°C).
Sunday: Mostly sunny. High 30°F (-1°C).

Situation for Noon Eastern Standard Time, Wednesday, January 21, 2009

WEATHER

Report Faults Treatment of Women Held at Immigration Centers
By Dan Frosch

Some 300 women held at immigration detention centers in Arizona faced dangerous delays in health care and widespread mistreatment, according to a new study by the University of Arizona, the latest report to criticize conditions at such centers throughout the United States.

The study, which federal immigration officials criticized as narrowly focused, was conducted from August 2007 to August 2008 by the Southwest Institute of Research on Women and the James E. Rogers College of Law, both at the University of Arizona. It was released Jan. 13.

Researchers examined the conditions facing women in the process of deportation, including the medical treatment of federal prisoners. An estimated 3,000 women are being held nationwide.

The study concluded that immigration authorities were too aggressive in detaining the women, who rarely posed a flight risk, and that as a result, they experienced severe hardships, including a lack of prenatal care, lack of treatment for cancer, ovarian cysts and other serious medical conditions; and, in some cases, being mixed in with federal prisoners.

China Sees Threats From Separatists And U.S. Arms Sales
By Edward Wong

China's Security Situation has improved steadily, but that being in a stage of economic and social transition, China is encountering many new circumstances and new issues in maintaining social stability.

The 105-page paper sought to portray China as a power that would use military force only defensively and sees territorial integrity as the top defense priority.

According to goals implied in the paper, China also seeks to counterbalance the American military presence in Asia. In several instances, the authors pointed out what they called worrisome aspects of American intervention.

States Join EPA Study of Pathogens In Ohio River
By Bob Orielhaus

Six states bordering the Ohio River are joining the Environmental Protection Agency in the largest study of its kind to identify and reduce dangerous levels of bacteria that plague the waterway.

Unsafe levels of fecal coliform, or E. coli, have been identified in about 500 miles of the 981-mile river, which stretches from Pittsburgh to the Mississippi River at Cairo, Ill.

The pathogens can sicken swimmers and others who come in close contact with the water. The study will provide about 5 million people with drinking water, including residents of Cincinnati, Louisville, Ky., and the suburbs of Pittsburgh, though typical bacteria levels do not pose a threat to their health.

The analysis, which officials plan to finish next year, will identify how much bacteria sewage treatment plants, factories and farms, among others, can discharge into the river without exceeding safety standards.

Optimism in Washington, Pessimism on Wall Street
By Jack Healey and Zachary Kouwe

The State Street Corp., one of the world's largest institutional money managers, reported a 71 percent drop in fourth-quarter profit, sending its share price down 59 percent.

The bigger economic picture is still a landscape of "gathering clouds and raging storms," Obama said Tuesday.

"We're seeing that values are falling faster, trade is shrinking and the unemployment rate, now at 7.2 percent, is expected to hit 9 percent or more. "At the end of the year, we saw some light at the end of the tunnel," said Art Hogan, chief market strategist at Jefferies & Co. "Unfortunately, we found out that the light at the end of the tunnel was a train."

Wall Street opened down and slid steadily lower throughout the day. The Dow Jones industrial average fell 332.13 points, or 4 percent, to 7,939.09. The Standard & Poor's 500-stock index tumbled 5.28 percent, or 44.90 points, to 805.22. The Nasdaq composite index declined 5.78 percent, or 88.47 points, to 1,140.86.

The losses came on all of Wall Street's gains from the start of the year and brought stocks within reach of their lows of Nov. 20. Some analysts said they thought the market would turn shortly after that date. "It's ugly," said James W. Paulsen, chief investment strategist at Wells Capital Management. "It's got all the makings of the late-November panic."

Financial shares went into a fire sale on Tuesday. Shares of Citigroup, once the largest American bank, fell 20 percent, or 7 cents, to $2.80 a share. That knocked the bank out of quarterly dividend to 1 cent. Bank of America fell 29 percent, or $2.08, to $5.10 Shares of JPMorgan Chase, Morgan Stanley, Wells Fargo and other banks also dropped by double digits.
Few Israelis Near Gaza Feel War Achieved Much

By Isabel Kershner

The wheat and potato fields of this kibbutz, or communal farm, in southern Israel stretch right up to the Gaza border fence. In almost surreal proximity on the other side the road the expectation of a confrontation in the near future is very much a daily presence that this day seemed larger than its own language, more imbued with meaning than it might have been.

War, in many ways, exactly what one might expect from a man who propelled himself to the high-office of the president of the United States by proclaiming a new age by reclaiming the_validation of national inspiration and resoluteness that Lincoln made the centerpiece of his second inaugural speech.

Israelis are clearly not, contrary to Hamas in Gaza on Sunday, with both sides having declared a cease-fire. Yet, there is little sense of triumph here in the days after, more imbued with meaning than it might have been.

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Justifying Self-Defense

A Counter to Noam Chomsky and the Critics of Israel

Joseph Maurer

As reported in The Tech, last Tuesday Noam Chomsky, MIT's well-known linguistics professor, gave a talk on the Gaza Strip conflict. While he didn’t hesitate in heaping scorn on Hamas for electing in a “free” election. Noam Chomsky, and anyone who values a humane life for that matter, would of course love to see Hamas (and their militant friends) fall from power in Gaza. But, while he may be right in the wrong party. I only wish that he would app-oprobate his the difference in casualties between the two groups, but it does not represent the wishes or somehow manages to trigger Iran’s aggression caused the failure of the six-month ceasefires to allow foreign aid into Gaza. Their hostage-taking, orbital, and personnel characterize the Hamas can perhaps best be illustrated by looking at the future — Israel claiming that it has thwarted Hamas' claim to 'proportionality,' which has been screamed ad nauseam by many of Israel's staunchest foes. Hamas thankfully and wisely avoids demurring in Israel for this reason. For those who don't, proportionality is a great way of looking at legal justice (the punishment fits the crime), and it's fine for setting personal scores, but not for the coward's way of hamstringing a country when applied to war. It's especially worthless in this case because of the difference in capabilities between Hamas and the IDF. Hamas' claims to proportionality hold only because Hamas is being ineffectively and, because Israeli citizens carry out much more frequent attacks against incoming rockets. Hamas militants shoot thousands of rockets at Israel, but to kill far fewer Israelis. Meanwhile, modern rockets are more deadly and trained personnel characterize the IED. Were the roles reversed, or if Hamas, as it has in the past, comes into possession of more advanced weapons, one could only guess how many Israeli civilians would be killed. The disproportionality measured in this difference in effective capabilities: it says nothing about future effectiveness or more importantly, moral. Consider the not so far-fetched analogy of Hamas as a crazed gunman with a man-made glock. He can shoot many shots at a time, but he's not very accurate. Say only one round of 15 out of the 15 fired is killing a target. The crazed gunman isn’t very effective at hitting his target, but certainly not for lack of effort. Still, how many of us would be willing to stand as this gunman's target for decades on end, as Israel's citizens have done against militant rockets? Can we stand the guilt of the guns? In this case, how can we ignore the passage of his speech to the editorial board, andgetFielding complete destruc-tion of the target? It seems logical that Israel has acted to defend itself and Hamas. However, Chomsky stated in his talk that Israel attacked Gaza for the wrong reasons, arguing that Israel’s citizens for voting the wrong way, thus disobeying the, “master,” as he calls it. Hamas. The intransigent and hostile Hamas proven to be false less than a week after it was made, as the current ceasefire clearly shows. It is unlikely that Israel have Israeli troops leaving Gaza as Chomsky. Meanwhile, Israel's Prime Minister, Ehud Olmert, has given a framework for solving the conflict, whereas Hamas works to destroy and take over Israel. If Israel has any territorial goals with respect to Gaza, it’s more likely that they’d enjoy being able to use the southern half of their country without fear of rocket strikes. Chomsky’s other claim is that the current conflict is intended to punish the inhabitants of Gaza for electing Hamas in a “free” election. Noam Chomsky, and anyone who values a humane life for that matter, would of course love to see Hamas (and their militant friends) fall from power in Gaza. But, while he may be right in the wrong party. I only wish that he would app-oprobate his

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Guest columns are opinion articles submitted by members of the MIT or local community and have the author's name in italics. Columns without italics are written by Tech staff.

Apple minus Jobs

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Ethan Solomon

Last Tuesday, Noam Chomsky explained to a packed auditorium at MIT’s Center of International Studies that Israel’s recent invasion of Gaza was nothing if not “familiar.” Chomsky blasted Israel for purposefully targeting Palestinian civilians, similar to claims laid against Israel during the war with Lebanon in 2006. And while it may be true that Olmert’s and Barak’s plan is to so utterly destroy Gaza’s civilian infrastructure that the Palestinian’s will have no choice but to reject Hamas, Chomsky also argued that it was Israeli provocation, and Israeli provocation alone, that is at the root of the continuing and yet unresolved Israeli-Palestinian conflict.

However, regardless of Israel’s current tactics or the actions of some of its allegedly corrupt politicians, it is naïve and dangerously short-sighted to suggest that the whole crisis could be resolved if Israel were to simply “end criminal actions in the occupied territories” and accept the two-state solution.

Simply put, the situation is much more complicated on both sides than Chomsky seems to give credit for. Israel’s government may have an imperialist-aggressive complex and may have even intentionally delayed previous plans for peace, but Hamas’ internal dynamics is equally complicated. Chomsky claimed that Hamas was willing to accept peace with Israel if Israel agreed to the recent peace proposal incorporating a two-state solution.

However, just last year, a top Hamas commander, Nizar Rayyan, commented on the possibility of a 50-year truce. “The only reason to have a hudna (cease-fire) is to prepare yourself for the final battle. We don’t need 50 years to prepare ourselves for the final battle with Israel. Israel is an impossibility. It is an offense against God.”

Even if top Hamas politicians are willing to accept a two-state solution permanently, there are still people like Nizar Rayyan with their finger on the trigger. It’s hard to argue that the Hamas government in Gaza has more control over its “fighters” than Israel’s government has over the IDF.

Even if negotiations didn’t collapse over “minor border modifications,” as Chomsky described them, in hashing out a newer treaty incorporating the two-state solution, what guarantee does Israel have that an enraged Hamas “fighter” won’t step on a bus in Tel Aviv and blow himself up, or that a man like Hussam Dwayat won’t run a bulldozer down Jaffa Street in Jerusalem, killing three, like what happened last year?

And on the other side of the coin, what’s to ensure one of Israel’s shells don’t land “off the mark” again, like the IDF claimed when a UN school was destroyed in Gaza a few weeks ago? These are issues that threaten lives but are not addressed by purely political solution.

So what is the solution for a lasting peace? Perhaps it would be more productive for countries like the United States to divert the billions of dollars in military aid to Israel towards building schools and infrastructure in Gaza and the West Bank. Israel has indeed made efforts like this towards the Palestinians in the past, however contradictory that may seem today. Perhaps the best way for Israel to convince the Palestinian people to reject Hamas would be to support them in building a stable economy and modernizing the Gaza strip. A prosperous Gaza is much less likely to support, or even tacitly enable, a group like Hamas when Hamas isn’t providing food, shelter, and social programs (or threatening civil war with Fatah).

The US, Israel, the EU, and others have the ability to fund and provide these kinds of services more effectively than Hamas can, so why have we left our humanitarian obligations up to a terrorist organization?

At the moment it would seem a jarring transition, but in the future, IDF soldiers building schools in Gaza and distributing relief aid would make Israel safer in a way that missiles and rocket artillery never could. The truth is, Hamas only exists because the people of Gaza are living in fear. The whole conflict really isn’t about religion or about “who was here first.” History and religion are always molded to fit the society, not the other way around. People like Hussam Dwayat and Prime Minister Ehud Olmert aren’t radicalized to violence by a border the UN drew in 1948 or because the Koran or Torah tells them to be violent.

So we need to start thinking about solutions that address the real core of the conflict. Solutions that address the situations which allow terrorist organizations like Hamas or the Israeli warmongers to win parliamentary elections. And that solution lies with the people of Israel and the people of Gaza, not in political gestures.
CAMPUS LIFE

Squid vs. Whale

I am so not going to spend the last minute of my life doing 8.01

By Charles Lin

Thoughts of an (imaginary) MIT student on US Airways flight 1549

Ugh, the secret always takes forever. Why can’t they hurry up and let me use my electronic devices? I really want to watch that DVD screener of “Shmadog Millionaire” on my laptop. Stupid FAA, it’s not like my laptop is actually going to interfere with the guidance systems. Black boxes don’t run on 802.11b.

I hate these Airbuses. Why don’t they have power ports? I’m gonna have to under-clock my processor so I have enough juice to last to Charlotte. Man, IAP isn’t even over yet and I could really use some caffeine. Where’s that beverage cart already?

BANG!

Crash. What was that? Eerie silence. Seriously, did anyone else notice that? Smells like my 6:02 lab. Holy shit. Are the engines gone? Oh shit shit shit, we’re losing altitude. This is it. I wish I’d passed my swim test. The time. I could be one of the survivors — if I’m not here, who’s going to lead the raid tonight? I wonder what will happen to my gear if I die? I wish WOW would let you bequeath BOP items. Stupid Blizzard.

Oh man, and I’m never going to get a chance to see “Watchmen”. That trailer rocked. I hope it’s better than “The Spirit”. Although Scarlett Johansson is so hot. I wonder if that function is linear. I wonder if they’re going to lead the raid tonight?

I wish I could be one of the survivors — if only I’d passed my swim test. God this sucks.

I can’t believe I’m actually going to die on an Airbus. This is why you never let Europeans make planes. I wonder how fast we’re going? Okay, I can totally back-of-the-envelope this. Just assume the plane is a sphere of uniform density, no sweat. Wait — I am so not going to spend the last minute of my life doing 8.01.

Shouldn’t my life be flashing before my eyes? There’s so much I have left to do. I just got my Death Knight to level 80 and I’m about to get a full set of Tier 7. Crap. If I’m not here, who’s going to lead the raid tonight? I wonder what will happen to my gear if I die? I wish WOW would let you bequeath BOP items. Stupid Blizzard.

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Okay, think positive. This plane must have a fairly decent glide ratio. Figure with all the flaps extended, our final velocity will be only about 160 miles per hour. Factor in a shallow angle of descent. We get a chance, man. We get a chance. Dude, I crash-landed my plane a thousand times on “Chuck Yeager’s Air Combat” back in the day. If I can land a P-51 without any engines and bullet holes in my chest, this guy can bring us down. If I die, I wonder if my Mac LC will be waiting for me in heaven. Playing “Sim City” during computer lab was so much fun.

I wonder what my chances of living are? They always say the back of the airplane is the safest place, and here I am in seat 15A. I wonder if that function is linear. I wonder if they have data on whether window or aisle makes a difference. These windows don’t look too sturdy.

Everyone’s all quiet and praying and stuff. Why can’t people be rational thinkers? Praying isn’t going to help.

We’ve only got a few seconds left, better bone up on the safety instructions. It might help. Better than cramming for algorithms. Okay, let’s see: “put your head between your knees”, “your seat may be used as a flotation device”, “assume a brace position”... hehe, assume the position.

BANG!

Owwwwwww I was not expecting that. Oh man, now we’re spinning... ugh, I feel all that Anna’s from lunch coming up. Not cool, not cool.

Okay, deep breaths, deep breaths. Hey, good news, man, you’re going to live! That’s awesome! I can still raid tonight! Tier 6 here we come!

Oh shit, water is entering the plane. Can’t swim, can’t swim, can’t swim. That’s it — next IAP I am so backing up all my files. What if I die because I was trying to take my laptop with me? That would be such fail. Shit, this is so difficult. Okay, I’m gonna power the laptop on and maybe I can shell in through my iPhone if the plane doesn’t sink. This is what I get for not backing up my stuff. Okay, next IAP I’m totally backing up all my files. I swear.

Sweet, I am out of the plane. Damn this water is really, really cold. I wonder how long until I get the hypothermia. Screw the FAA, I can check that shit right now! Okay, iPhone out. Going to Google. Wait — better update my Twitter, my guild is going to be so geeked out when they hear about this. “Crash landed plane in Hudson, grr, being rescued. CU at Naxx tonight 7 p.m. EST k l8r.” Gotta do my Twitter. Going to Google. Wait — better update my Twitter, my guild is going to be so geeked out when they hear about this. “Crash landed plane in Hudson, grr, being rescued. CU at Naxx tonight 7 p.m. EST k l8r.” Gotta do my Facebook status next. Oh wait. Dude, I could totally be like the first person to post this on Reddit. That’s going to be so much karma.

Man, that’s going to be so much karma. Man, that’s going to be so much karma. Man. Today’s just the best day ever.

The Associate Consultant Internship

We would like to remind all Juniors of the following dates:

Resume Submission Deadline
Date: Monday, January 26, 2009 by 11:59pm EST
*Applicants must apply via www.joinbain.com AND Career Bridge.
Please include a cover letter, resume, and unofficial transcript.

First Round Interviews
Date: Monday, February 9, 2009
Place: Career Services

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The story of jazz is a desperate struggle of birth and rebirth, of constantly trying to ride the “new” of reinventing how we look at the music we worship to the alternative. Today innovators fuse genres, add instruments, at once rejecting the past and later resurrecting it. The innovators enjoy: the vast litany of recordings of vaulted Messiaen’s music to the fame it curried the quartet to an audience of four hundred. The combination isn’t necessarily professional musicians: clarinetist Henri Akoka, in World War II. While interned in Germany of war in the fall of 1940 while he was fighting in the region presented by Michel Gondry (“Eternal Sunshine of the Spotless Mind”) directs the first vignette, “In- terior Design” in “Tokyo!”. A young couple by the names of Akira and Hiroko move into the city. Akira is the novice filmmaker who seeks to fulfill his ambition. Hiroko, Akira’s girl- friend, finds herself not sharing Akira’s enthusias- siasm for the city. The awkward transition to their relationship means to express herself creatively. Gondry’s attention to the subtle de- tails in characters’ expressions makes dialogue irrelevant. The very real interactions and witty puns between the couple breathe life into the on screen relationship.

The piece is conceived and developed from Revelation 10:1-2, 5-7, a majestic description of the coming of the angel that brings in the apocalypse. Each of the movements reun- ceives an aspect of this vision in Messiaen’s very personal sense of Catholic mysticism, in his own description: I. Liturgy of Crystal, II. Voci, for the angel who announces the end of Time. III. Abyss of birds, IV. Interlude, V. Praise to the eternity of Jesus. VI. Dance of fury, for the seven trumpets, VII. Cluster of rainbow, for the angel who announces the end of Time. VIII. Praise to the immortality of Jesus. The music itself is hauntingly detached and impenetrable, yet personal. Certainly, Messia- en’s God is somehow majestically draconian, his Christ is maternal. Birds fit in and out of Messiaen’s world not as worldly creatures, but as eternal messies of the sort Noah or Mary beheld. As detached and dispassionate as this may seem, there are uniquely personal ele- ments throughout the entire piece: the birdcalls of the third movement, or the religious reverie that pulses through the obsessive driving uni-

Hope at the End of Things
Toshiyuki Tsuchiya: Messiaen’s “Quartet for the End of Time”

By Sudeep Agarwala

Quatuor pour la fin du temps (Quartet for the End of Time) Olivier Messiaen Toshiyuki Tsuchi

RCM Victor Gold Seal 1976

Heating the all-star cast of the Toshiyuki quartet (Peter Serkin, Ida Kavafian, Fred Sherry, and Richard Stoltzman) record Messiaen’s quartet in 1976. It’s a beautiful moment, of looking at pictures of your parents before they had any children. Each of these musicians has gone on to an illustrious career of their own, and this particular recording was made before much of their seri- ous careers as musicians. Although younger at the time of this recording, the quartet realizes Messiaen’s work with a mature exhilaration and an intimate appreciation of motive and detail that vaulted Messiaen’s music to the fame it cur- rently enjoys: the vast litany of recordings of the quartet. The piece is directed from the viewpoint of the one in mind. Though this is an older recording, there is still no surprise that it was recommended by Alex Ross in his recent work, “The Rest Is Noise”. It was, of course, a pity that the quartet should have disbanded after this recording, yet fitting that these four musicians should have come together to present this quartet last year for Messiaen’s centennial celebration. It has been nearly forty years after Barthes killed the author and Foucault wrote the epitaph, but now Messiaen’s centennial year seems that necessity was a catalyst for Messi- en’s God is somehow majestically draconian, his Christ is maternal. Birds fit in and out of Messiaen’s world not as worldly creatures, but as eternal messies of the sort Noah or Mary beheld. As detached and dispassionate as this may seem, there are uniquely personal ele- ments throughout the entire piece: the birdcalls of the third movement, or the religious reverie that pulses through the obsessive driving uni-
Inauguration Day 2009

Top left: Hackers placed a presidential seal banner on the facade of Building 10, beneath the Great Dome, early on the morning of Jan. 20, 2009.

Above: Millions of visitors congregate around the National Mall in Washington, D.C. yesterday. The crowds stretched from Capitol Hill to beyond the Washington Monument.

Left: Parisians watch President Barack Obama’s inaugural address outside a packed Carr’s Irish Pub in downtown Paris yesterday.

Students Meet Challenges at Mystery Hunt 2009

Above: Members of the Manic Sages team organize their previously-solved puzzles in order to tackle a metapuzzle at 6 a.m. on Jan. 17. A metapuzzle is a puzzle whose solution is found by using the answers to puzzles from each mystery hunt round or stage. The team Manic Sages included students from the Experimental Study Group and the independent living group Epsilon Theta, as well as remote solvers and friends. They were the third team to finish this year’s hunt.

Right: Freshman members of the team Pet Mangoes Marie Hu, Brian D. McCarthy, Brian Carvalho work on puzzles on Saturday Jan. 17 in the team headquarters in Simmons dining hall. Pet Mangoes, a team consisting of residents, alumni, and friends of Simmons Hall, solved more than 66 of 104 puzzles in the hunt.

Bottom right: Members of the Mystery Hunt team Manic Sages, affiliated with Mit’s Experimental Studies Group and with Mathcamp, concentrate on solving individual puzzles.

Below: Members of the mystery hunt team Pet Mangoes made pancakes spelling the word "HUNT" as part of a team breakfast held on Saturday morning. Breakfast was held in the Simmons dining hall, which also served as the team headquarters during the hunt.
RESUME DEADLINE

Monday, January 26th

All MIT Juniors interested in summer positions at BCG should apply. Applications should include a resume, cover letter, GPA and SAT scores along with your top 3 office preferences.

http://onlineapplication.bcg.com/MIT

BCG is an equal opportunity employer.
### Crossword Puzzle

**ACROSS**

1. WWW addresses
5. Portents
14. Act like an usher
15. Yawn
16. Composition
17. Star of Katherine Hepburn quote
19. Fall bloomer
20. Bikini, for one
21. Ford’s folly
23. Oklahoma town
24. Corruptible
25. In point in tennis
26. In truth
27. Start of Katharine Hepburn quote
28. Immediate point in tennis
30. Part 2 of quote
33. Pocketbooks
35. Male red deer
36. Formerly, I Can Say
37. Decade count
38. Close
42. Wickerwork willow
45. Kisses and cuddles
47. Part 3 of quote
53. “More Than I Can Say” singer
55. French co.
56. Timex rival
57. Weather conditions
58. Gung ho
59. End of quote
60. Mr. T’s outfit
61. Heat unit
62. In law
63. Solo in “Star Wars”
64. “Died” author
65. Avi Jaffa
66. Terrifying
67. Spanish article
68. “Casablanca”
69. Recipe amt.
70. Phone company, once
71. Passed with flying colors

**DOWN**

2. Phone company,
4. Rich, to deprive
5. In days past
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**Pseudoscience**

by Daniel Klein-Marcuschamer

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**The Daily Blunderbuss**

by Ben Peters
Steal MyComic by Michael Ciuffo

Gobble, Gobble, Gobble

We’re wild about turkey at The Tech
join@tech.mit.edu
20.020: Learn how to design and build living organisms that solve real world problems

Instructor: Natalie Kuldeł

9 units, T/R 11:30a - 1p and W 2-5p
No prerequisites
http://openwetware.org/wiki/20.20(S09)

THE 2ND ANNUAL HUMMUS EXPERIENCE

Make Your Own Hummus
(Rsvp required - israeli-hummus@mit.edu)
7PM / Tuesday January 20TH / W11

The Hummus Taste Off
12PM / Wednesday January 21TH / W20 (PDR #3)

Learn How To Make Hummus For Beginners
7PM / Thursday January 29TH / W11

Hummus Tour
(Rsvp required - israeli-hummus@mit.edu)
9AM / Tuesday January 27TH / W11

Many of the rocks brought back from the moon have a faint magnetic signal, suggesting that they originally cooled from magma when the moon had a magnetic field. That was a surprise to many scientists who thought the moon was too small and too cold to have ever possessed a geomagnetic dynamo where electric currents from the convection of molten iron generate a field.

The evidence was inconclusive because the moon’s surface has been repeatedly battered by meteorites, and the shock of impact can also leave a magnetic signature on rocks.

But a 4.2-billion-year-old rock named troctolite 76535, collected by Harrison Schmitt, the only trained geologist among the Apollo moon walkers, offers a pristine view of the moon’s early history. (Troctolite is a type of rock made of the minerals olivine and plagioclase.) The rock is significant because it formed when the moon was only 300 million years old, and previous studies showed that it had never been shocked, or altered, by the force of an impact.

Garrick-Bethell’s research showed two distinct magnetic fields within the rock, or at least within the small fragments they examined. The first field, he said, was set when the rock first crystallized perhaps 30 miles beneath the surface over several million years. Then it appears that a meteorite impact knocked the rock close to the surface without shocking it, but heating it enough to erase part of its magnetic field and imprint a second field at a 140-degree angle to the first as it cooled a second time over thousands of years.

The slow cooling time appears to rule out the possibility that the fields were caused by meteorite impacts, the researchers said.

The researchers arrived at their findings by placing the rock chips in an increasingly strong magnetic field, which “erased” the rock’s magnetic bit by bit. That allowed them to see whether the magnetic atoms had lined up in the same direction, as would be expected if the magma had cooled in a magnetic field.

LEGAL COUNSEL
MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call:
James Dennis Leary, Esq.
321-544-0012

Solution to Crossword
from page 10

Solution to Sudoku
from page 10

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Was the Moon Once Magnetic?

Moon, from Page 1
Students Hope Obama Will Change America's Relations With World

Inauguration, from Page 1

Adam J. Leonard ’12, an Obama phone volunteer, said he was ex- cited for the new administration. He thought that the media had focused too much on the race of America’s first black president throughout the campaign. Some MIT students had largely ignored the campaign, he said, which he thought was a shame because of its historic significance.

Jake Gable, a senior in political science at Boston University, said that Obama had challenged a politi- cal apathy he had developed through years working on grassroots politi- cal campaigns. For the first time in years, Obama gave him hope for real change, he said. Gable, who described himself as a socialist, said he was pleased by Obama’s reception overseas, especially in Europe.

Students interviewed said they cared most about Obama’s potential to improve America’s foreign relations. Many students said they hoped he would pursue a bipartisan policymaking. And some said they hoped for more research support: the crowd in 10-250 erupted into cheers when Obama promised to “restore science to its rightful place” in his inaugural address.

Students said they thought the address would be a public event, while they found other parts — the swearing in, the benediction, the poetry, and more — superficial.

News Briefs, from Page 1

The site, titled “Diversity & Inclusion @MIT” and available at http://web.mit.edu/diversity, currently features MIT reports on di- versity and the proceedings and a webcast of the Nov. 18, 2008 Di- versity Leadership Congress. Over 300 MIT affiliates attended the Congress, and the suggestions made by participants are now avail- able online.

In an anonymized comment published in the “Diversity Leadership Congress Feedback Summary,” one participant wrote, “One big event is not enough to raise the level of awareness. MIT will need sustained smaller efforts to help managers better understand how to identify and confront Diversity goals. ... My sense is that many people are uncom- fortable discussing these sensitive issues, others do not want to lose critical time.”

The site, announced by Vice President for Human Resources Ali- son Alden, Chancellor Phillip L. Clay PhD ’75, and Secretary of the Corporation Kirk D. Kolenbrander, is expected to be updated regu- larly. The mailing list diversity@mit.edu is open to community mem- bers who want to get more involved in issues concerning diversity and inclusion.

—Robert McQueen

MIT Darwin Bicentennial Symposium
January 22-24, 2009

Thursday, Jan. 22, 2009: The Evolving Earth
The Broad Institute Auditorium
1 pm – 5 pm: Origin of the Solar System & early Earth; Evolution of oceans & Earth’s early atmosphere; Evolution of photosynthesis
7 pm – 9 pm: Life alters the Earth; History & future of Earth’s climate

Friday, Jan. 23, 2009: Evolutionary Mechanisms Among Vertebrates
The Broad Institute Auditorium
9 am – 12:30 pm: Darwin, Wallace & the Origin of Species; Evolution & development of the vertebrate brain; Novel mechanisms of evolutionary change; Evolution of the vertebrate eye
2 pm – 5 pm: Natural selection in humans & pathogens; Fish fins to tetrapod limbs; New insights into the diversification of beak morphology in Darwin’s finches & regressive evolution in cave fish.

Saturday, Jan. 24, 2009: Darwin in Society
The MIT Museum
9 am – 12 noon: The emergence of Darwin’s evolutionary theory; Darwin & the naturalization of human culture; The evolution of cell division; The battle between pathogens & the immune system.
1:30 pm – 4 pm: Darwin, Abolition & struggles for human equality; Current controversies over the teaching of evolution

For full schedule and to register please visit: http://www.darwinbicentennial.org

Free and open to the community.

SIPB IAP
Caffeinated Crash Course in C
Wed Jan 21, 3:00–6:00pm, 1-115
UNIX is Your Friend
Wed Jan. 21, 6:00–7:00pm, 4-237
Get comfortable with using the command line.

Building Filesystems with FUSE
Wed Jan. 21, 9:00–11:00pm, 1-115

Math Secrets for the Computer Scientist
Tues/Thurs Jan 22, 27, 29, 7:30–8:30pm, 56-114
The computing world uses more math than you think.

Programming LaTeX
Thurs Jan 2, 3:30–5:30pm, 4-237
Take advantage of LaTeX’s programmable nature.

Bad Ideas in Kernelspace
Fri Jan 23, 3:00–5:00pm, 4-231
Mod the Linux kernel for fun and utility.

Advanced C
Fri Jan 23, 5:00–7:00pm, 4-231
Learn how to use C’s advanced features and hardware ops.

Intro to Software Exploitation
Mon, Tues, and Wed Jan 26–28, 2:00–4:30pm, 8-119
Learn how people crack software & how you can stop them.

The Internet Shouldn’t Work
Wed Jan 28, 5:00–7:00pm, 4-237
Learn the real magic behind the series of tubes.
sipb.mit.edu/iap
Daniel J. Stallworth '11 breaks it down in Lobby 13 during a session of break dance classes run by MIT Imobilare on Jan 14.

13th EUROPEAN CAREER FAIR @ MIT
January 24 - 26, 2009

European Innovation and Entrepreneurship Workshop
Fri, Jan 23 - 11:30am-2pm  MIT, Stata Center (32-141)
Learn about the strengths and opportunities of the innovative and entrepreneurial European countries. Registration required.

Career Fair Day
Sat, Jan 24 - 9am-5pm  MIT, Johnson Track (W34-200)
110+ employers will present themselves, meet face-to-face with candidates, give special 30 min presentations on their companies and distribute specific job descriptions. Recruiters will invite exceptional candidates for interviews, so bring your resume!

Interviews
Sun, Jan 25 - Mon, Jan 26  Hyatt Regency Cambridge
By invitation only. Employers determine format and exact location.

Other affiliated activities
Sun, Jan 25  Hyatt Regency Cambridge
9am-12:30pm  Research in Germany - Registration required
3pm-7pm  Working in The Netherlands
2pm-4pm  Industry in Europe - Sciencecareers Panel

Earth Share supports more than 400 environmental and conservation organizations that impact you every day.

Visit us at earthshare.org

Every decision we make has consequences. We choose what we put into our lakes and rivers. We choose what we release into the air we breathe. We choose what we put into our bodies, and where we let our children run and play. We choose the world we live in, so make the right choices. Learn what you can do to care for our water, our air, our land and yourself at earthshare.org.

Earth Share
For more details go to:
www.euro-career.com

join@tech.mit.edu
**Scoreboard**

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**Sports Shorts**

Coast Guard Academy. The Engineers topped the Bears, 199-100, while falling to the Pride, 157-143, moving to 5-2 for the season.

Springfield scored the decisive blow after winning the 400 free relay despite sophomores Amy E. Jacobs’ 53.6 second anchor leg for MIT. Jacobs enjoyed a terrific afternoon at home, impressively winning the 100-meter freestyle in 54.65 seconds, while leading a 2:34-4 split in the 400-meter freestyle. Jacobs swam in 25.10 seconds, with Ashley E. Pinchuitil’ 10 and Sarah B. King’ 10 touching just behind her. Springfield’s Moira Price won the hotly contested race with a time of 25.05 seconds.

Jacobi delivered a strong start for the Engineers on Sunday with her split of 24.6 seconds to anchor MIT’s winning 200 medley relay. Allison M. Abouz 12, Abigail M. Clark’ 09, and Jennifer A. Chao’ 09 completed the unit, which won the race with a time of 1:53.70.

Chao added to her first-place totals for the weekend by sweeping the fly events for the second consecutive day. Chao swam 1:00.61 in the 100-meter and 2:14.10 in the 200-meter. MIT secured two more wins on the afternoon as Nicole O’Kreffe’ 09 created the field en route to a win in the 1000 (10:42.36), while rookie Sydney A. Giblin’ 12 finished first in the 200 individual medley (2:18.75).

—James Kramer, DAPER Staff

**No. 11 MIT Men’s Swimming Tops Coast Guard and Springfield**

Once again, the MIT men’s swimming and diving team flexed its muscles in Zeigler Pool, improving to 6-0 on the season after netting decisive victories against conference foes Springfield and Coast Guard. The Engineers, who are ranked 11th in the latest national poll, defeated Springfield, 197.5-100.5 and Coast Guard, 179-117.

Jeffrey Y. Zhou’ 10 finished in 52.47 seconds, as the Engineers swept the top four places in the 100 fly, with Deke Hu’ 09, Brett L. Bivai’12, and Toonam R. Sepp’ 10 touching just behind his split of 47.00 seconds. Lawrence Charpentier’ 10 picked up a win of his own earlier in the day after swimming the 1:57.49 to nab MIT’s 12th event victory of the meet.

—James Kramer, DAPER Staff

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**Jobs & Co.**

There are some financial firms where technology doesn’t take a back seat. The D. E. Shaw Group is a highly successful investment and technology development firm with an international reputation and a decidedly different approach to doing business. We offer a stimulating work environment and colleagues from the strongest technical programs in the world. They’re not conventional “financial types,” but then again, neither are we.

The firm currently has openings in quantitative analysis, software development, information technology, computer architecture, and computational chemistry. Our work environment is challenging but surprisingly flexible—from the clothes you wear to the time you get to the office, it’s pretty much up to you. And we welcome people from the strongest technical programs in the world. They’re not conventional “financial types,” but then again, neither are we.

The D. E. Shaw group will conduct on-campus interviews on February 11. To apply, log on to CareerBridge. If this isn’t possible, please send a resume and cover letter stating your GPA and standardized test scores, broken down by section where applicable, to jobs@deshaw.com. All applications must be received by January 28.
By Greg McKeever

The MIT men’s and women’s track and field teams kicked off their 2009 campaigns with a pair of resounding first-place finishes over Bates and Colby Colleges on Saturday at Bates. The men’s total of 204 points far outpaced second-place Bates, who finished with 128 team points. Colby finished in third with just 21 points. MIT’s women totaled 151 points as Bates finished second with 123 and Colby again came in third with 89.

The men’s team relied on strong performances by its runners, who claimed the top spot in all but three events on the track. Stephen A. Morison ‘10 (23.04 seconds) and Khalil A. Deitzer 12 (23.54) in the 200-meter sprint were one of four pairs of MIT runners to finish one-two, with Moreison claiming his second of four event wins. In the 400m, Daved N. Rusher G (53.09) just outpaced teammate Nicholas W. Leonard 11 (53.41). William S. Phillips ’09 (1:24.67) took first in the 400m while Matthew F. Benison’09 (2:00.69) took the 800m by almost two seconds over Stephen R. Scrose 12. Phillips, Leonard, John A. Granata ’11 and Kevin G. Kiehnwehl ’11 combined to lead the Engineers to victory in the 1600-meter relay.

Morton helped MIT solidify its first-place standing in the field events, out-jumping his counterparts in both the long jump (6.78 meters) and the triple jump (14.47m). Anthony D. McDonald ’10 was the first of four Engineers to earn points in the shot put with a distance of 13.58 meters.

On the women’s side, Jacqueline M. Weintz ’10 led a solid showing in the distance events, capturing 1000m (2:59.94) and the one-mile run (5:10.91). Anna Holt-Gosselin ’11 (10:43.54) crossed the finish line just ahead of teammate Jennifer A. Chao ’09 (10:43.65) in the 3000m run. Puria M. Jones 12 also had a strong performance on the track, winning the 200m (27.62), and placing second in the 55m hurdles (9.00) just behind Amy R. Magnuson ’10 (8.86).

Willard J. “Billy” Johnson ’09 and Martha M. Gross ’12 combined to give MIT a victory in the 4x200 meter relay.

In the field events, Emily Hwang ’09 helped MIT take the top three spots in the pole vault, clearing 3.34 meters to take first place. Magnuson secured a second-place finish in the long jump, with a distance of 4.78 meters.

MIT will take part in the Terrier Classic hosted by Boston University next weekend, starting Friday, Jan. 23.

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Men’s Basketball Storms Past Springfield, 89-64

Preseason All-American James M. “Jimmy” Bartolotta ’09 led the MIT men’s basketball team to an 89-64 victory over Springfield College by scoring 33 points against the Pride in a NEWMAC contest at Springfield’s Blake Arena.

MIT is now 12-4 overall and 4-0 in the New England Women’s and Men’s Athletic Conference, the first time it has ever begun conference play with a 4-0 record. The Engineers have won five in a row overall.

MIT led by 20 at the half (55-35), when this game was really decided. The closest Springfield came in the second half was within 15 points on two occasions, the last with 5:08 remaining (77-62) on a three-pointer by John Strawson. But MIT ended on a 12-2 run to finish it off.

After all was said and done, Bartolotta scored 33 points, adding four rebounds, two assists, and a block for the game. He was 10-of-14 from the floor, 5-of-7 from 3-point range, and 8-of-9 from the charity stripe in just 27 minutes of work. Willard J. “Billy” Johnson ’09 scored 22 points and added five rebounds and two steals. James D. Karraker ’12 was the third double-figure scorer for MIT with 13 points, while fellow rookie William E. Bender ’12 scored eight points, and added three assists and three steals.

As a team, MIT made 13-of-24 three-point attempts, for an outstanding 52.4 percent.

The 89 points and 25-point margin of victory were the most ever for an MIT team against Springfield, while the Engineers also set an Institute record for the most points scored in a conference game.

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Women’s Swimming Splits Against Coast Guard and Springfield

The women’s swimming and diving team capped a busy weekend with a split against NEWMAC rivals Coast Guard College and Springfield College.

Springfield handed MIT a loss here in the second half with two points, 15 points on two occasions, the last with 6:45 remaining (73-62) on a three-pointer by John Strawson. But MIT ended on a 12-2 run to finish it off.

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