

MIT's  
Oldest and Largest  
Newspaper

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**The Weather**  
Today: Cloudy, 50°F (10°C)  
Tonight: Mild, 40°F (4°C)  
Tomorrow: Sunny and pleasant,  
60°F (16°C)  
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Volume 129, Number 10

Cambridge, Massachusetts 02139

Friday, March 6, 2009

## Battle of the Jewish Pastries:

*Six Profs Duke It Out; Latke and Hamentashen Inspire Debate*

By Ziwei Hao

On Wednesday night, six respected professors gathered in 26-100 for the Seventh Annual Latke-Hamentashen Debate. Students and faculty, ushered by a yarmulke-wearing Tim the Beaver, packed the lecture hall for the humorous academic dispute over the virtues and shortcomings of the latke and the hamentashen.

The hamentashen is a triangular jelly-filled pastry traditionally eaten on the holiday of Purim; the latke is an oil fried potato pancake dipped in applesauce that is served during Hanukkah.

### Team Hamentashen:

- ¶ Tom Leighton PhD '81  
Professor of Applied Mathematics
- ¶ Jeffrey I. Steinfeld '62  
Emeritus Professor of Chemistry
- ¶ Jeremy M. Wolfe, PhD '81  
Lecturer in BCS and Concourse

### Team Latke:

- ¶ David Jones,  
Professor in STS
- ¶ Keith Nelson  
Professor of Chemistry
- ¶ Donald Sadoway  
Professor of Materials Chemistry

The moderator, Hazel Sive, Professor of Biology, a hamentashen supporter from the 2008 event, proposed that the results of the debate will "drive the Institute forward into the next millennium" and may



MONICA KAHN—THE TECH

Tim the Beaver gets the crowd excited before the annual Latke-Hamentashen debate, held this year on Wednesday, March 4 in 26-100. The placard on his chest reads "MIT" in Hebrew.

very possibly "decide the fate of the planet."

Each professor was given seven minutes to present their argument. After all professors had spoken, one professor from each side took five minutes to rebut.

Sive unveiled the secret mechanism that determined the order of the debate: latke and hamentashen flying frogs. The two teams shot their respective plastic frogs at a

Jewish Pastries, Page 14

## Admissions Reduces Staff, Travel, Will Use The Web for Recruiting

By Michael McGraw-Herdeg

EXECUTIVE EDITOR

The admissions office has laid off staff, will reduce travel spending by 30–50 percent, and will move much of its communication with students to the Web. The measures will help Admissions meet MIT's mandated 5 percent budget cut for the fiscal year beginning in July.

The changes came as MIT processed a record-high number of applications to the Class of 2013 in what will almost certainly be a historically selective admissions cycle. This year's acceptance rate will likely be the lowest ever.

Citing privacy concerns, Dean of Admissions Stuart Schmill '86 declined to disclose how many staff had been laid off. The office has about 35 employees, although not all work for the entire year.

The layoffs were not immediate: staff were given notice within the last month that they were being laid off. MIT administrators are "offering as much support and help for the staff as we can," Schmill said.

Were staff given advance warning that layoffs were coming? "It was never taken off the table that layoffs might occur" in discussions about the budget, Schmill said.

"This was a painful decision and was made reluctantly," Schmill wrote in an e-mail.

### Layoffs come during busy season

Admissions staff have been under pressure this spring because of the increased workload caused by increases in applications, Schmill said. MIT this year received about 15,600 applications for the Class of 2013, 17 percent more than last year and almost 50 percent more than applied to enter the class of 2009.

Unless MIT accepts more than about 1,800 students, this year's acceptance rate will be the lowest ever. Last year's acceptance rate was 11.6 percent, a record-low, with 1,554 students accepted. 35 more were admitted in May off the wait list.

Applications were level for years but rose dramatically after MIT launched a new admissions Web site in 2004, Schmill said. Applications decreased from year to year for the classes of 2007–2009 but have since risen, overall increasing about 50% from the Class of 2009 to the Class of 2013.

The current admissions staff will be able to absorb the laid-off

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CHELSEA GRIMM—THE TECH

The scantily-clad men's swim team cheered through the Infinite on Thursday in celebration of Sunday's NEWMAC title win.

## Jackson, Bulovic, Jones, And Henderson Achieve MacVicar \$100K Grants

By Emily Prentice

ASSOCIATE NEWS EDITOR

On Thursday night, four MIT faculty members were named MacVicar Faculty Fellows in recognition of their contributions to undergraduate education. They each receive \$100,000 for educational activities and research.

The four professors come from a variety of fields: Literature Professor Diana Henderson; Electrical Engineering and Computer Science Professor Daniel Jackson PhD '92 and Associate Professor Vladimir Bulovic; and Science, Technology, and Society Professor David Jones.

The MacVicar Day event this year will be a faculty panel discussion entitled "New Directions in General Education" from 2:00–3:30 p.m. today in 9-057. MacVicar Day is annual celebration of undergraduate education and educational innovation associated with the MacVicar Fellows Program.

Students and faculty members are able to nominate professors who must then be endorsed by their department heads. According to Leann Dobranski, assistant director of the Teaching and Learning Lab, the MacVicar Advisory Committee this year was chaired by the Dean of Undergraduate Education Daniel E. Hastings PhD '80, and also included two current MacVicar Fellows, two non-MacVicar Fellow faculty members, and two undergraduate students selected by the Undergraduate Association Nominations Committee. The Advisory Committee submits their recommendations to Provost L. Rafael Reif who makes the final decision.

Hastings said that in evaluating

Teaching Prize, Page 11

## Von Maltzahn Wins \$30,000 Award for Cancer Research

By Robert McQueen

ASSOCIATE NEWS EDITOR

Last Tuesday, graduate student Geoffrey von Maltzahn was named winner of the Lemelson-MIT Student Prize and received an unrestricted cash gift of \$30,000 for his innovative work in cancer therapy.

Currently pursuing his doctorate at the Harvard-MIT Division of Health Sciences & Technology, von Maltzahn is working to combine nanotechnology, medicine, and engineering to improve tumor detection and revolutionize chemotherapy treatment.

One of von Maltzahn's most notable inventions is the application of gold nanorods to detect and destroy tumor cells. His nanorods are very small particles on the nanometer scale that are specially designed to absorb infrared radiation.

When these nanoparticles are injected into the blood stream, they concentrate around cancerous tumor

Lemelson-MIT, Page 13

### In Short

¶ Ten percent of Athena workstations across campus no longer display seconds on their login screens because they are now testing a beta Athena version 10. They run Ubuntu Linux, which makes it easier to install popular and up-to-date software for them; support for USB drives is now much better.

¶ Add date is the last day to drop classes without them showing up on your internal transcript.

¶ The men's basketball team faces Rhode Island College tonight in the opening round of the Division III NCAA Tournament, their first trip ever to the tourney. The game tips off at 6 p.m. at RIC. A webcast of the game is available at <http://tinyurl.com/c35wa4>. See story on page 16.

¶ Happy Anniversary! to President Susan J. Hockfield and Dr. Thomas N. Byrne. The couple celebrated their 18th wedding anniversary last Monday.

¶ Watchmen opens today in 3,611 theatres. There were midnight shows last night. "But who watches the Watchmen?"

### E-mail of the Week!

An e-mail thread yesterday on the Campaign for Students mailing list discussed bringing pitchforks and broadswords to an upcoming UA meeting where the mandatory dining controversy would be discussed with Dean Donna M. Deboncourt, who chairs the Blue Ribbon Dining Committee. Andrew R. Drechsler '10 wrote, "I think we should forge our own instead of buying them."

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Set your clocks forward this weekend.

Daylight saving time begins at 2 a.m. Sunday.

# WORLD & NATION

## President Signals Compromise On Health Care

By Robert Pear and Sheryl Gay Stolberg  
THE NEW YORK TIMES

WASHINGTON

President Barack Obama vowed Thursday to end a decades-long stalemate on overhauling the health care system, and he indicated for the first time that he was open to compromise on details of the proposal he put forth in the campaign.

Obama spoke at a White House forum on health care, where he bluntly warned lobbyists and "special interests" not to stand in the way of efforts to rein in costs and guarantee coverage for all Americans. He said he intended to achieve those goals by the end of this year.

"During the campaign," Obama said, "I put forward a plan for health care reform. I thought it was an excellent plan. But I don't presume that it was a perfect plan or that it was the best possible plan."

As a candidate, Obama said he would establish a new public insurance program to compete with private insurers, and would require employers to contribute to the cost of coverage for their employees or to the cost of the public plan. Insurers strenuously oppose the idea of a new public plan.

## CNN Medical Reporter Ends Surgeon General Candidacy

By Gardiner Harris  
THE NEW YORK TIMES

WASHINGTON

Dr. Sanjay Gupta, CNN's chief medical correspondent and a practicing neurosurgeon, has withdrawn from being considered for surgeon-general, CNN reported on Thursday.

Several other candidates are now under serious consideration, including Dr. Irwin Redlener, the director of the National Center for Disaster Preparedness at Columbia University, according to people who have been briefed on the situation.

Gupta had been approached by the Obama transition team and discussed the job with President Barack Obama late last year in Chicago. An administration official said in an e-mail message to reporters that Gupta had been under "serious consideration" and added, "We know he will continue to serve and educate the public."

Gupta's wife, Rebecca Olson Gupta, is expecting a child, and Gupta wants to spend more time with his family and continue practicing medicine and serving as a CNN correspondent, the CNN anchor Wolf Blitzer said on Thursday.

## Bank of America Looks Into How Merrill Lost Money So Quickly

By Louise Story and Eric Dash  
THE NEW YORK TIMES

CHARLOTTE, N.C.

One Merrill Lynch trader apparently gambled away more than \$120 million in the currency markets. Others seemingly lost hundreds of millions of dollars on tricky credit derivatives.

But somehow all this red ink did not spill into plain view until after Merrill earmarked billions of dollars for bonuses and staggered into the arms of Bank of America.

Inside Bank of America headquarters here, executives are asking why. The bank is investigating how Merrill accounted for wayward trades in the final, frantic months of 2008 — and why at least one big loss was slow to appear on Merrill's books.

Of particular concern are the activities of a Merrill currency trader in London, Alexis Stenfors, whose trading has come under scrutiny by British regulators, according to people briefed on the investigation. The loss Stenfors is believed to have incurred so alarmed Bank of America that this week the bank examined the books of other traders who were on vacation.

# Fear Slams Shares, as Blue Chips Trade for Pocket Change

By Jack Healy  
THE NEW YORK TIMES

The banking giant Citigroup once commanded a stock price of \$55. But at one point on Thursday, as markets hurtled to their lowest close in 12 years, the shares were worth less than an item at the Dollar Store.

After months of headlong declines, this is what Wall Street has come to: Blue-chip companies, once considered safe investments and cornerstones of the economy, are the new penny stocks.

The bear market is tightening its grip, despite efforts by the government to support the economy and some of its biggest companies. Fears about the depth and breadth of the recession drove the Dow Jones industrial average down 4 percent more on Thursday, bringing its losses since January to 25 percent — just shy of the 33 percent decline recorded for all of 2008.

"It borders on unbelievable," said Glenn W. Tyranski, senior vice president of financial compliance at NYSE Regulation. "You're seeing companies that are just really suffering across the board."

The number of companies trading at \$10 or less on the Standard & Poor's

500-stock index has increased tenfold since the market reached a peak in October 2007. And with no end in sight to the downward spiral, the New York Stock Exchange has temporarily suspended its \$1 minimum share-price requirements to prevent a wave of delistings.

One share of General Motors stock, which fell below \$2 on Thursday as it warned of possible bankruptcy, is not even enough to buy a gallon of gasoline for your Chevy. A share of General Electric, battered this week to little more than \$6, would not buy two of the company's compact fluorescent light bulbs. And at its current price of 73 cents, it would take two shares of Office Depot stock to buy a box of paperclips.

The Dow Jones industrial average closed at 6,594.44, down 281.40 points, or 4.09 percent — its lowest close since April 15, 1997. The broader S&P 500 fell 30.32 points, or 4.25 percent, to 682.55, its lowest close since September 1996. The Nasdaq composite index fell 4 percent, or 54.15 points, to 1,299.59.

The rout highlighted the apathy and pessimism that has seeped into all corners of the market as the global

economic downturn deepens.

Investors had bid up shares on Wednesday, for example, on hopes that China would increase spending to shore up its unraveling economy, but sold off after the Chinese government swatted away those rumors. With so much uncertainty, investors are parachuting out of companies ranging from banks to retailers to utilities, and abandoning stock markets everywhere from Asia to Europe to Wall Street.

Many are concerned the recession may gain force before it ebbs, especially as job losses increase, a worry that is likely to drive stocks into a downward trend over the next few months. Economists expect the unemployment rate for February to rise to 7.9 percent from 7.6 percent in January, and they estimate that the economy shed 650,000 jobs last month. The Labor Department will release February's unemployment numbers at 8:30 a.m. Friday.

"It's just a continuing self-destructive market where even the slightest good news is considered negative," said Peter I. Cardillo, chief market economist at Avalon Partners. "No one is taking a backseat approach. Everyone is just selling."

# Quiet Layoffs Hit Workers By Thousands

By Steve Lohr  
THE NEW YORK TIMES

With the economy weakening, chief executives want Wall Street to see them as tough cost-cutters who are not afraid to lay off workers. But plenty of job cuts are not trumpeted in news releases.

Big companies also routinely carry out scattered layoffs that are small enough to stay under the radar, contributing to an unemployment rate that keeps climbing, as Friday's monthly jobs report is likely to show.

IBM is one such company. It reported surprisingly strong quarterly profits in January, and in an e-mail message to employees, Samuel J. Palmisano, the chief executive, said that while other companies were cutting back, his would not. "Most importantly, we will invest in our people," he wrote.

But the next day, more than 1,400 employees in IBM's sales and distribution division in the United States and Canada were told their jobs would be eliminated in a month. More cuts followed, and overall, IBM has told about 4,600 North American employees in recent weeks that their jobs are vanishing.

J. Randall MacDonald, IBM's senior vice president for human resources, said it was routine for the company to lay off some employees while hiring elsewhere.

"This business is in a constant state of transformation," MacDonald said. "I think of this as business as usual for us."

These unannounced cuts, labor experts say, raise issues of disclosure and the treatment of workers. They argue that the federal law requiring warning of certain kinds of layoffs should be overhauled, so that it cov-

ers smaller job cuts. That would give people more time to seek new jobs, career counseling and retraining.

"The twin goals are transparency and decency," said Harley Shaiken, a labor economist at the University of California, Berkeley. "The issue becomes all the more pressing in this downward economic spiral."

The notification law, known as the WARN Act, is a legacy of an era when the economy was more dependent on manufacturers, and legislators were concerned about blue-collar workers suddenly locked out of their factory. That kind of shutdown is hard to hide, while white-collar layoffs spread across many locations are not.

The WARN Act requires 60 days' notice, but the events that require notification are specific — a plant closing, a layoff of 500 or more people at one location, or a cut of at least one-third of the work force at a site.

# WEATHER

## Historical Perspective for 2008–2009 Seasonal Snowfall

By Garrett P. Marino  
STAFF METEOROLOGIST

Monday's 8.5" snowfall brought our seasonal total to 63.7", about 20" above an average winter season. The average additional snowfall from now until the end of the season is still another 8". However, even if we were to receive no additional snow this winter, this year would still rank as the 18th snowiest season (snowfall records for Boston date back to 1871–1872). So if you feel that we've had a lot of snow this winter, you're correct, although it could have been a lot worse! The highest snowfall for a season belongs to 1995–1996, when Boston recorded 107.6" of the white stuff. In case you're wondering what the historical snowfall trends are for Boston, the answer is that the trend is fairly flat over the entire period of record 1871–2008, although four of the seven snowiest winters have occurred since the 1990's (2004–2005, 1995–1996, 1993–1994, and 1992–1993).

Snow will not fall during the foreseeable future, except perhaps a brief flurry early this morning. A warm front will pass over us today, advecting warmer temperatures and pleasant conditions, especially for Saturday. Next week is expected to turn cooler than the weekend, but no bitter cold is in store. Enjoy!

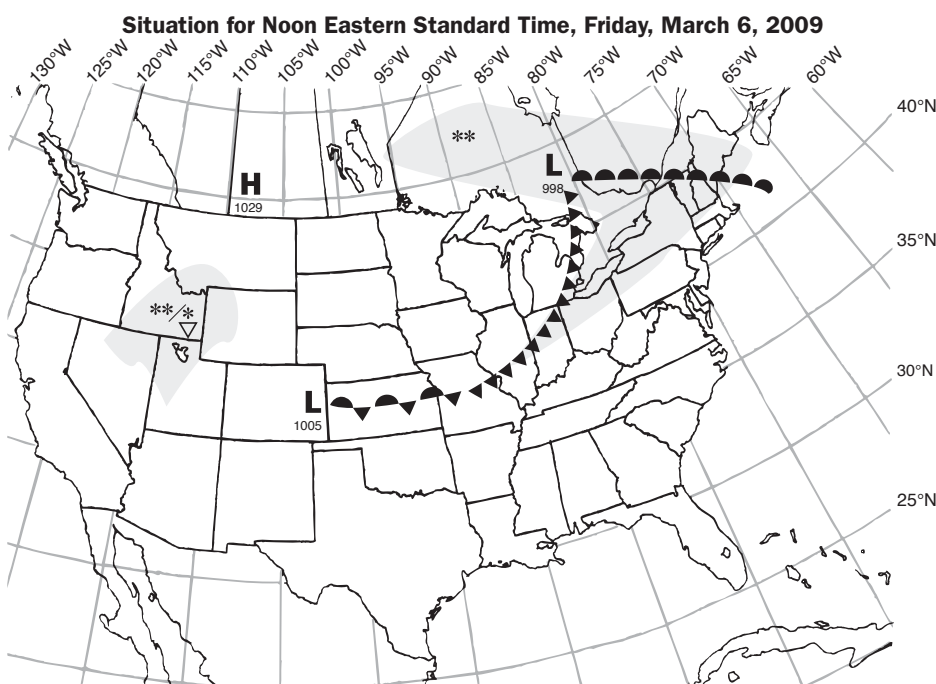
### Extended Forecast

Today: Cloudy and breezy with a slight chance of early morning flurries or sprinkles. Highs around 50°F (10°C).

Tonight: Partly cloudy and mild. Lows around 40°F (4°C).

Tomorrow: Mostly sunny and pleasant with highs approaching 60°F (16°C).

Tomorrow night and Sunday: Mostly cloudy with a chance of showers. Lows around 40°F (4°C). Highs in the upper 50s°F (14°C).



Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	- - - Trough	Snow *	Fog
L Low Pressure	—•• Warm Front	Light *	Thunderstorm
§ Hurricane	▲▲▲ Cold Front	Moderate **	Haze
	▲▲▲ Stationary Front	Heavy ***	

Compiled by MIT Meteorology Staff and The Tech

# Food Safety Problems Slip By Private Auditors

By Michael Moss and Andrew Martin

THE NEW YORK TIMES

When food industry giants like Kellogg want to ensure that American consumers are being protected from contaminated products, they rely on private inspectors like Eugene A. Hatfield. So last spring Hatfield headed to the Peanut Corp. of America plant in southwest Georgia to make sure its chopped nuts, paste and peanut butter were safe to use in foods like granola bars and ice cream.

The peanut company, though, knew in advance that Hatfield was coming. He had less than a day to check the entire plant, which processed several million pounds of peanuts a month.

Hatfield, 66, an expert in fresh produce, was not aware that peanuts were readily susceptible to salmonella poisoning — which he was not required to test for anyway. And while Hatfield was inspecting the plant to reassure Kellogg and other food companies of its suitability as a supplier, the Peanut Corp. was paying him for his efforts.

“The overall food safety level of

this facility was considered to be: SUPERIOR,” he concluded in his March 27, 2008, report for his employer, the American Institute of Baking, which performs audits for major food companies. A copy of the audit was obtained by The New York Times.

Federal investigators later discovered that the dilapidated plant was ravaged by salmonella and had been shipping tainted peanuts and paste for at least nine months. But they were too late to prevent what has become one of the nation's worst known outbreaks of food-borne disease in recent years, in which nine are believed to have died and an estimated 22,500 were sickened.

With government inspectors overwhelmed by the task of guarding the nation's food supply, the job of monitoring food plants has in large part fallen to an army of private auditors like Hatfield. And the problems go well beyond peanuts.

An examination of the largest food poisoning outbreaks in recent years — in products as varied as spinach, pet food and a children's snack, Veggie Booty — show that auditors failed to detect problems at

plants whose contaminated products later sickened consumers.

In one case involving hamburgers fed to schoolchildren, the Westland/Hallmark Meat Co. in California passed 17 separate audits in 2007, records show. Then an undercover video made that year showed the plant's workers using forklifts to force sickly cows into the slaughterhouse, which prompted a recall of 143 million pounds of beef in February 2008.

Audits are not required by the government, but food companies are increasingly requiring suppliers to undergo them as a way to ensure safety and minimize liability. The rigor of audits varies widely and many companies choose the cheapest ones, which cost as little as \$1,000, in contrast to the \$8,000 the Food and Drug Administration spends to inspect a plant. Typically, the private auditors inspect only manufacturing plants, not the suppliers that feed ingredients to those facilities. Nor do they commonly test the actual food products for pathogens, even though gleaming production lines can turn out poisoned fare.

# Amid Outcry, Gandhi's Simple Things Sold for \$1.8 Million

By A.G. Sulzberger and Sewell Chan

THE NEW YORK TIMES

NEW YORK

More than a decade ago, a Los Angeles filmmaker and peace activist named James Otis began collecting items that represented the ascetic lifestyle of Mohandas K. Gandhi. They were the simple belongings of a man who did not care for possessions: his steel-framed spectacles, a pair of sandals, a bowl, a plate and a pocket watch.

Those modest possessions of the leader of the nonviolent struggle for India's independence touched off an international struggle as they went on sale at Antiquorum Auctioneers in Manhattan on Thursday.

The tiny auction room at 595 Madison Ave. was thick with finely dressed bidders, a throng of journalists and a lawyer for Otis, who was trying to stop the auction after having second thoughts.

In the end, after days of controversy that roiled India, the lot sold for \$1.8 million to Vijay Mallya, an Indian liquor and airline magnate who owns the company that makes

Kingfisher beer.

For the Indian government — which faces general elections next month — the sale was of questionable legality and threatened to deny the nation part of the cultural legacy of its founder. For Gandhi's descendants, the sale seemed to contradict his aversion to materialism. Gandhi himself had given away several of the items. For Otis, the sale was to be a means to promote pacifist causes, although the uproar later proved to be upsetting.

Antiquorum Auctioneers insisted that the sale would go on regardless. The dispute drew comparisons to an auction in Paris last month, after which a Chinese collector who said he was the winning bidder, refused to pay for Qing Dynasty bronze sculptures, saying the works had been looted in the 19th century.

While the Gandhi items were believed to have been legitimately obtained, both sales pitted auction houses against governments that could ultimately do little more than complain.

Mallya pledged through a representative to return the items to India

for public display. But Prabhu Dayal, India's consul general in New York, said, “There is still a legal matter to be resolved,” because a court in New Delhi had issued an injunction to block the sale.

Nonetheless, Tushar Gandhi, 49, a great-grandson of Gandhi who heads the Mahatma Gandhi Foundation, said in a phone interview from Mumbai after the sale, “I am very happy now. Now the things will come back to India to where it rightly belongs.”

Criticism of the sale had prompted Otis — who also owns a vast Dr. Seuss collection — to make an unusual offer on Wednesday. He said that he would donate the items to India if the government agreed to sharply increase spending on the poor or include the items in an exhibition that would travel the world.

In New Delhi on Thursday, Anand Sharma, a junior foreign minister, said that those terms would violate India's sovereignty and that Gandhi himself would have rejected them. Nonetheless, Prime Minister Manmohan Singh directed his representatives in the United States to do everything possible to secure the items.

# Clinton Proposes Including Iran In Talks on Afghanistan

By Mark Landler

THE NEW YORK TIMES

BRUSSELS, BELGIUM

Setting up the prospect of its first face-to-face encounter with Iran, the Obama administration has proposed a major conference on Afghanistan later this month that would include Iran among the invited countries, Secretary of State Hillary Rodham Clinton said Thursday.

“We presented the idea of what is being called a big-tent meeting, with all the parties who have a stake and an interest in Afghanistan,” she said at a news conference here after a meeting of NATO foreign ministers. “If we move forward with such a meeting, it is expected that Iran would be invited, as a neighbor of Afghanistan.”

Prodded by the United States, NATO's 27 members also agreed to resume high-level relations with Russia, which were suspended last August after Russia's military offensive against Georgia.

The United States has asked the Netherlands to act as host for the Afghanistan conference, which would take place on March 31 and

be chaired by the United Nations. Iran did not say Thursday whether it would accept an invitation.

Clinton's proposal underscores the administration's belief that Afghanistan may provide the most promising avenue for opening a diplomatic channel to Iran — something that President Barack Obama has made a major goal of his foreign policy.

Earlier this week, Clinton said Iran could play a useful role in stabilizing Afghanistan, noting that its officials consulted regularly with the United States in the early days of the war to oust the Taliban in 2001.

At the same time, she kept up an unyielding tone toward the Iranian regime. The U.S. plan to install a missile defense system in Poland and the Czech Republic, Clinton said, is driven in part by the threat of Iran, which possesses long-range missiles and is trying to build up its nuclear program.

“There's an ongoing debate about what the status of Iran's nuclear weapons production capacity is,” Clinton said. “But I don't think there is a credible debate about their inten-

tions.”

Her approach reflects the administration's policy of mixing carrots and sticks with Iran — extending offers as a path to engagement but also maintaining a hard line on issues like nuclear weapons.

The proposed conference would give the United States a venue to present the results of its Afghanistan policy review to its NATO allies. The review is to be completed by the middle of March, State Department officials said.

Next week, Vice President Joe Biden will meet with officials at NATO to offer further details of the emerging U.S. policy, which Clinton outlined in broad strokes on Thursday.

Clinton said the international community must view Afghanistan and Pakistan as a “single strategic concern.” She described the border region between the two countries as the “nerve center” for the 9/11 attacks; the bombings in Madrid and London; the assassination of the former Pakistani leader, Benazir Bhutto; and the terrorist attacks in Mumbai.

# Alex Rodriguez To Play With Labrum Tear

By Tyler Kepner

THE NEW YORK TIMES

TAMPA, FLA.

Alex Rodriguez will try to play through a labrum tear of his right hip, the Yankees said Thursday, because the condition would require him to miss four months if he needs surgery.

“It doesn't mean it's going to get worse, it doesn't mean it won't get worse,” general manager Brian Cashman said. “That's the gray area, that's what we're all trying to figure out. It's in our best interest, because he's such an asset. Part of the conservative treatment is to limit his spring training. If we're going to try to see if we can get through the season with it, let's shorten the pounding he'll be taking.”

Rodriguez was in Vail, Colo., on Thursday to have a cyst on his hip drained by Dr. Marc Filippin, who examined him on Wednesday and found the labrum tear. Cashman would not say how severely Rodriguez tore the labrum, but he said that he would need surgery after the season, if not sooner.

Cashman said Rodriguez, who had been training with the Dominican Republic, would not participate in the World Baseball Classic. Cashman said he expected Rodriguez to return here soon.

Manager Joe Girardi said he would limit Rodriguez's workload this spring by using him as a designated hitter, restricting his innings and giving him more days off. But Girardi, who typically plays down injuries, acknowledged his concerns.

# Auditors Raise Doubts About GM's Viability

By Nick Bunkley

THE NEW YORK TIMES

DETROIT

Auditors for General Motors, in one of the bleakest assessments yet of the automaker's prospects, said Thursday that GM's survival was in “substantial doubt” even if it received all \$30 billion it hoped to borrow from the federal government.

The report by the auditing firm Deloitte & Touche also raised the possibility that GM could have to liquidate its operations if its loan request is denied.

GM's acknowledgment that it is perilously close to bankruptcy — its auditors made a similar announcement last fall — was not unexpected. But the report stirred new fears among investors, who drove down GM's shares by 15 percent, to \$1.86.

Deloitte & Touche laid out numerous chains of events that could trigger a bankruptcy filing by GM. The company, which lost \$30.9 billion last year and has received \$13.4 billion in government loans since December, made the disclosure in its annual report filed with the Securities and Exchange Commission.

The announcement does not mean bankruptcy is imminent. But it underscores how difficult it will be for GM to successfully complete the restructuring plan that it filed with the Treasury Department last month.

“Our recurring losses from operations, stockholders' deficit and inability to generate sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern,” GM said in its filing.

GM, which is seeking an additional \$16.6 billion in federal loans, must prove its viability to President Barack Obama's auto task force by a March 31 deadline.

Robert Gibbs, the White House press secretary, said the task force was well aware of GM's precarious state before the auditors' report was released.

# Pakistan's Truce With Taliban Is Volatile

By Jane Perlez and Pir Zubair Shah

THE NEW YORK TIMES

PESHAWAR, PAKISTAN

The Taliban and the Pakistani army signed a truce in February in Swat, the once-popular tourist area just an hour north of the capital. But far from establishing peace, the pact seems to have allowed the Taliban free rein to expand their harsh religious rule.

Just days after the truce was signed, a member of a prominent anti-Taliban family returned to his mountain village, having received assurances from the government that it was safe. He was promptly kidnapped by the Taliban, tortured and murdered.

The militants then erected roadblocks to search cars for any relatives who dared travel there for his funeral. None did.

This week, two Pakistani soldiers who were part of a convoy escorting a water tanker were shot and killed because they failed to inform the Taliban in advance of their movements.

# Senators Ask, 'Who Got Money From AIG?'

By Mary Williams Walsh

THE NEW YORK TIMES

WASHINGTON

The Senate Banking Committee told the vice chairman of the Federal Reserve to identify all the parties made whole by the bailout of the American International Group or forget about coming back to ask Congress for more rescue money.

“You will get the biggest ‘no’ you ever got,” Sen. Jim Bunning, R-Ky., warned Donald L. Kohn, vice chairman of the Fed board of governors, in a hearing on Thursday. “I will hold up the bill.”

The hearing was called to examine the regulatory patchwork that had allowed huge risks to build up at AIG. Since AIG's near-collapse in September, the government has committed \$160 billion to keep it afloat.

Tens of billions of those dollars have merely passed through AIG to its derivatives trading partners, shielding them from losses. The Fed has refused to provide the names of those financial institutions, and senator after senator expressed outrage.

Kohn said the Fed believed that the only hope of recovering the taxpayers' money was to get AIG back on its feet, doing business as usual — and that meant respecting its customers' privacy. “I would be very concerned that if we gave out the names, people wouldn't want to do business with AIG,” he said.

Committee members also pressed regulators from the Office of Thrift Supervision and the New York State Insurance Department to concede that they were at least partly at fault for failing to prevent AIG's crisis.

# OPINION



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## Corrections

Because of inaccurate information provided by the Undergraduate Association Election Commission, Tuesday's table that listed UA and Class Council candidates gave the incorrect class years for some Class Council candidates. Rishi Dixit '12 is running for class of 2012 — not 2011 — president. David S. Zhu '12 is running for class of 2012 — not 2011 — treasurer. Zhu is also a *Tech* sports editor, which the table did not disclose because of an editing error.

A caption on page 1 of Tuesday's issue incorrectly stated the location of Roadkill Buffet's performance. The improv show took place in 6-120, not 6-270.

# A Broken Model for Energy Change

## Our Current Energy RD&D Isn't Working

Gary Shu

The past few weeks have seen a flurry of energy news, more than all the news from the last three administrations put together. What's a cynical, snarky graduate student to do to keep up?

Last Monday, a high profile gathering of legislators, administration officials, and energy executives met at the Clean Energy Summit to push around hot air. Attendees included the current Speaker of the House (Nancy Pelosi), the Senate Majority leader (Harry Reid), the Current Nobel Laureate Secretary of Energy (Steven Chu), a former Nobel Laureate Vice President (Al Gore), and a blowhard oilman (T. Boone Pickens).

The consensus at this run-of-the-mill DC power lunch? We're going to support green energy and transmission infrastructure with comprehensive federal policies and a nationwide "superhighway" for electricity. I'll believe that when the scorched earth lobbying, the turf battles within Congress, and the grouching from state regulators all simmer down.

Like a duck being fattened for a fois gras slaughter, the recently-passed stimulus bill is about to shove funds down the throat of the Department of Energy — approximately \$40 billion worth in a department that already handles \$25 billion. The money is diffusing throughout all parts of the organization, from the widely vaunted energy efficiency and weatherization money (\$14 billion) to renewable energy loan guarantees (\$6 billion) to smart grid funding (\$4.5 billion).

Of course money is also being dished out in such portions like \$6.5 billion for two federal power grids to perform system maintenance and upgrades as well as \$6 billion for euphemistic-sounding departments for radioactive waste cleanup (i.e. Office of Legacy Management and Environmental Management). Given that the Energy Department's Loan Guarantee Program has yet to deliver a single cent of its nearly \$100 billion worth of loans and that Secretary Chu needs new laws passed to revamp the program, how "stimulating" do you think all this money will really be?

The budget proposed by the Obama administration last week already depends on \$90 billion worth of revenue from a nationwide cap-and-trade program on carbon dioxide to pay for items like tax cuts and renewable energy research. How much does our nationwide cap-and-trade program currently deliver?

Oh wait, we don't even have one. We do have the recently launched Regional Greenhouse Gas Initiative cap-and-trade system here in the Northeast though! So far, it's generously produced carbon permit revenues to the tune of \$140 million.

I'm not reaching when I say there's a disconnect somewhere here. Political will, absent backbreaking compromises, is obligatory. Money is necessary, but spending it well is a requirement. To use a campaign turn-of-phrase — "hope" is not a strategy.

Much political capital and money will be spent on delivering energy research, development, and deployment (RD&D) but we cannot be but surprised when our lofty expectations are not met by the broken system we have so firmly institutionalized. How the aspects of RD&D end up being implemented will determine if a new energy paradigm is realized.

What does the current state of deploying energy innovation look like then?

Our transmission system is a jigsaw puzzle of authorities, regulations, models, governments, and utilities, all with their own agenda and gunning to keep their piece of the pie. The bulk of the work done at the Energy Department's National Labs has little to do with energy.

When was the last time that you heard about an innovation that came out of the Department of Energy that the oil companies and staid electricity companies didn't like?

Cap-and-trade will be birthed in such a frenzied holy war of lobbying and deal-making such that that nothing effective will be left unscathed.

How about energy development? We'll say a prayer and move quickly past the maimed corpses of "cleantech" venture capital firms while welcoming the departure of their penchant for faddish jargon.

We're left with energy research. Ah, research — the pure one, untouched and uncorrupted by such silly things like politics, or people.

We here at MIT like to imagine that we are at the cutting edge of everything. MIT, whose name rings loud and clear to distant lands, draws into its realm a highly disproportionate share of Asian tourists to clog up Lobby 7. The Institute works hard at maintaining its image of the technological elitism. (What other university has so many rules regarding the use of its painfully ugly logo?)

The MIT Energy Initiative has produced influential reports shaping a future cap-and-trade program and carbon capture and sequestration in addition to single-handedly breathing new life into the Department of Energy's geothermal technologies program. Any Joe Six-Pack off the street would be impressed.

That's why the MIT Energy Conference at the end of this week will be so disappointing.

The flagship energy event at the flagship technology university would be a place where one would normally expect presentations of groundbreaking research. Yet, the Energy Conference ends up as little more than a glorified networking event.

Last year's speakers included a partner at noted venture capital firm Kleiner Perkins Caufield & Byers, John Doerr, who gave a speech and managed to refrain from crying about climate change like he did at a TED conference. Jim Rogers, CEO of Duke Energy — the nation's third-largest corporate emitter of CO<sub>2</sub> — did his best to persuade people that he's serious about the threat of climate change (convincing) and that he deserves cap-and-trade permits for free to make it easy (not so convincing).

Frankly, the reason there is little homegrown substance to counterbalance such self-serving displays at the MIT Energy Conference is that hardly any groundbreaking energy research is actually done at MIT or any other university. This is where energy research fails to live up to its promise.

Unlike research in — for instance — lasers or designer drugs, university energy research lags behind that of industry and lacks the resources that large multi-billion dollar companies have at their disposal. What few potential scientific breakthroughs that universities do produce are so far from large-scale deployment that these technologies will need to be slowly nurtured toward success while being exposed to the whimsy of human affairs we call politics.

I'm not alone in my disillusionment with university energy research. Harvard's Energy Technology Innovation Policy (ETIP) research group and the Brookings Institution have in the past few weeks released reports on revamping energy research but do little to solve the problem. Harvard's report produced a number of maddeningly vague policy recommendations like "Develop, publish, and implement a comprehensive U.S. energy innovation strategy". Brookings study reheats the old idea of regional research clusters between government, academia and business by simply sticking the word "energy" at the front.

Some days I worry about the future of the country and the world. The other days I read the paper so I can know what in particular to be worried about.

I do have one bit of hope: the Advanced Research Projects Agency — Energy, otherwise known as ARPA-E. Amply funded in the stimulus bill after several years of sitting idle without appropriations, ARPA-E is modeled after the Defense Department's DARPA with the high-risk, high-reward research that produced the Internet.

ARPA-E has potential for energy innovations but probably because it doesn't really exist yet. In this crazy world, maybe that's really all the change we can hope for.

*"Money is necessary, but spending it well is a requirement. To use a campaign turn-of-phrase — 'hope' is not a strategy."*

*"... university energy research lags behind that of industry and lacks the resources that large multi-billion dollar companies have at their disposal"*

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## ARTS

## CD REVIEW

*Nels Cline Drones On...**...And On and On*

By S. Balaji Mani

ARTS EDITOR

*Nels Cline**Coward*

Produced by Nels Cline

Cryptogramophone

Released February 10, 2009

You either know Nels Cline as the thin-framed lead guitarist for the alt-folk collective Wilco, or as one of LA's most experimental composers of avant-garde jazz guitar fronting the Nels Cline Singers. Either faction of Nels-fanatics would find something new in the accomplished guitarist's latest endeavor, *Coward*. Though Cline's canon dates back to 1979 (including myriad collaborations, trio projects, and a fraction of the Wilco discography), this is his first true solo album in that he composed all of the music and plays all of the instruments.

The liner notes include a hand-written account of exactly what instruments were used for each recording. Cline took on playing not only 6- and 12-string acoustic and electric guitars (even prepared guitars for a few songs), but a vast array of zithers, sruti boxes, loop units, drum machines, banjo and tenor ukuleles, basses, and even a home-made guitar constructed from a cigar box. Cline mentions on his website that he'd intended to make this record for years — an album solely devoted to rich, layered guitar music — but only got around to doing so

now.

His original inspiration for *Coward* (a title which he's had reserved for decades) lends itself to jazz albums like John Abercrombie's *Characters* and Bill Connors' *Theme to the Guardian*. However, Cline's influences and interests in string music have changed, and thus have contributed to a decidedly different record. *Coward* contains not only jazz-inspired solo guitar pieces, but microtonal compositions as well. A beautiful duet, "The Divine Homegirl," sounds like an updated version of a Pat Metheny song from the 70s ECM era. Electric guitar swells in and out of a predominantly acoustic piece that features Cline's fast finger work and penchant for darker harmonies that modulate rapidly.

As the album progresses however, a later track called "The Nomad's Home" sounds like a gradual trip from the UK to India. The composition begins with a slide guitar gliding over a chord-heavy acoustic arrangement. Cline's soloing becomes more fragile throughout the song, balancing on its toes while the acoustic guitar is fingerpicked. At the climax, the slide guitar speeds up with the backing guitar, and jumps intervals reminiscent of South Indian carnatic music. The fast lead line towards the end echoes Cline's growing interest in international music and Indian scales. Cline's natural disposition for long, droning sounds finds its way into the hypnotic opener, "Epiphyllum" as well as portions of the near 18-minute mini-opera, "Onan Suite" (which is divided into six

separate tracks on the album).

While Cline uses *Coward* as a method of exploration and experimentation for the guitar, there are also plenty of songs written to pay tribute to friends and loved ones. The third track, "Thurston County," is an obvious tip of the hat to Sonic Youth's Thurston Moore, a colleague of Cline's. The song begins with a humorously sinister arpeggio supplanted with sirens that sound like a misbehaving theremin. Delicate chords replace the arpeggio, and the sirens (Cline's clever use of a lap-steel) succumb to gorgeous, emotive soloing. A distorted guitar revisits dissonance, culminating in an idiosyncratic guitar riff that precisely mimics Moore's playing in Sonic Youth.

The resemblance to Moore's style is uncanny and convincing. Cline evokes sorrow in another 18-minute epic "Rod Poole's Gradual Ascent to Heaven," whose eponymous hero was a friend of Cline's, and was brutally stabbed to death two years ago. Cline admits that he wept for his friend while listening to the final mix of this song. Prepared guitars provide a more percussive sound in this song, and the listener could envision Poole marching slowly into the depths of his afterlife.

With a runtime of 72:31, *Coward* is not easy to consume in one sitting. As an album, the sequencing seems arbitrary to me. Perhaps *Coward* wasn't written to play front-to-back. Rather, it could be a collection of Cline's long-awaited guitar project. Regardless, this is a unique piece

in the Nels Cline catalog and may be the only item like it for many years to come. Now that *Coward* has been released, Cline is already back at work with his trio, the Nels Cline Singers, and they plan to release an album later this year.



PHOTO CREDIT: NELSCLINE.COM

Avant-garde guitarist Nels Cline gears up for a new album with his trio upon the release of his first solo album.

## CD REVIEW

*Ben Folds Lets You Play the Producer**Mix to Your Delight, then Mix It Again!*

By S. Balaji Mani

ARTS EDITOR

*Ben Folds**Stems & Seeds*

Produced by Dennis Herring

Epic Records

Released February 10, 2009

The Ben Folds fanbase has spoken: 2008's *Way to Normal* was TOO LOUD and we want our money back; or, at least, a remix.

Given that the majority of Ben Folds' followers are uptight audiophiles (and I say this with utmost respect), it's clear that they just weren't satisfied with the way the last record sounded. Instead of letting his fans down, Folds decided to re-release *Way to Normal*, with a fresh mix sensitive to the most discriminating ear. However, the questionable mixing doesn't end there; because if the fans hate the mix, then they should mix it themselves, right?

Released in mid-February, *Stems & Seeds* is a double-disc product that opens up new possibilities in the artist-listener relationship. Fans with Macs (read: audiophiles) can load the stems of the original *Way to Normal* album into their Garageband software — and let the experiments begin! You can turn the vocals up — or down — cut out the bass track, add effects, or chop out the

drums arbitrarily for a genre-bending contemporary experience. This move alone proves that Folds is approaching genius. Finding a way to merge the culturally-ubiquitous with the culturally-necessary has never looked — or sounded — better. Such an effort hearkens back to Radiohead's remix contest, where the aged Brits released modified stems of a small selection of songs encouraging fans to "make them better."

The other disc contains the seeds, which translates to the full *Way to Normal* tracklist in addition to some peculiar gems: full versions of "fake" songs Folds leaked on an early hoax version of the album and a couple of live tracks. The new mix treatment sounds less harsh, and allows Folds' vocals to sit calmly above the rich instrumentation. The release of each Ben Folds solo album has seen increasing attention to multi-instrumental arrangements and a variety of sonic color choices. The lyrical content of this album is more blatantly humorous, and Folds returns to using casual vulgarity. In "Bitch Went Nuts," he matter-of-factly sings "... she called me 'cunt!'" Sillier lyrics follow and also find themselves weaved into songs like "Free Coffee" ("they didn't charge me / they didn't charge me") and the opener "Effington" (where Folds will start a new "effinglife"). Though "Free Coffee" includes a novel electronic backbeat, these three make up the weaker tracks on the album.

The clear standouts are "You Don't Know Me" and "Cologne," both of which bring out two very distinct strengths of Folds' writing style. The former is a bouncy pop tune with tongue-twisting lyrics that glide forward with no slip difficulty. Giving them an extra boost is Regina Spektor, and the vocal duet is a rare moment in recent pop collaboration. The slower, contemplative "Cologne" features Folds' falsetto over a vivid chord progression, often arpeggiated. The string arrangement found on this song is a somewhat diluted memento of the earlier Ben Folds Five piece "Narcolespy." Even the rock and roll bulldozer "Errant Dog" will translate nicely live, and could pass as an early Rolling Stones b-side.

*Stems & Seeds* is a success — not necessarily for the music but mainly for its bold decision to challenge fans to mix the album according to their listening pleasure. The album will become a prized toy for fans and curious listeners to revisit frequently, giving new identity to the record itself. Folds is still writing strong, catchy hits, but his age might put him past the humor he's injected into the new material. Take your own stab at the new songs by purchasing *Stems & Seeds* and remixing it yourself, or just catch Ben Folds when he rocks MIT for our annual Spring Weekend concert. Tickets are currently on sale at <http://sao.mit.edu/tickets/2009/spring-concert>.

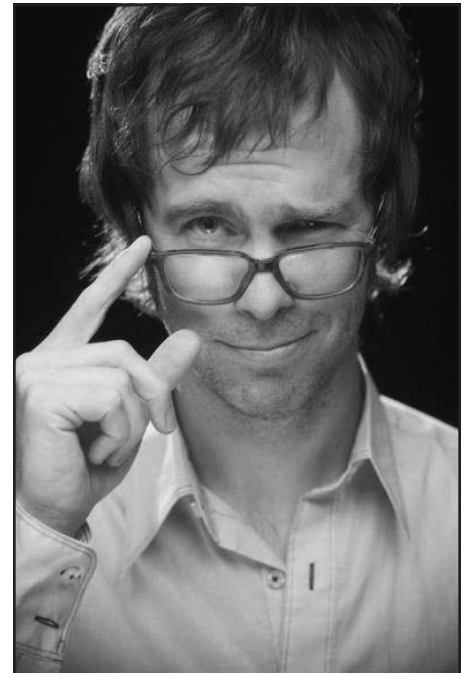


PHOTO CREDIT: BENFOLDS.COM

Pick up Ben Folds' latest, *Stems & Seeds*, and remix the album on your own home computer.

## INTERVIEW

*Hsunami Merge the Old with the New**Who Else Could Rock the Erhu?*

By Maggie Liu

STAFF WRITER

At the CSC Chinese New Year banquet, the closing performance featured Hsunami, a group named after founder Jack Hsu. The band labels itself as part of the "progressive Asian soundscape." An instrumental rock band, they feature a traditional Chinese instrument called the erhu. The erhu is sometimes called "southern fiddle" and its sound can be compared to that of the Western violin. The usage of an amplified erhu lends a touch of classic Chinese folk to the predominantly rock songs.

Initially I had been slightly skeptical because I am one who sometimes listens to songs purely for their lyrics. However, the erhu was surprisingly effective as a replacement for vocals and possessed a versatility that even, dare I say, surpasses that of vocals. Perhaps it is for this reason that their song "Rising of the Sun" was chosen as the entrance theme for

the Chinese basketball team during the 2008 Summer Olympics.

I had the opportunity to catch the band after their act and interviewed both Jack Hsu (erhu/violin/synth) and Brent Bergholm (guitar). The whole band consists of the erhu, two guitars, bass, and drums. During the live performance, there was also a female keyboardist.

(TT = *The Tech* and HN = Hsu-Nami)

TT: I was really impressed by the band. It's an interesting twist on both rock and traditional Chinese music. Who came up with the concept?

HN: We actually met at college. We were all music majors at the time and it just kind of ... started.

TT: So how long have you guys been together?

HN: About three years? I don't remember if we officially started in 2005 or 2006 but it was around them.

TT: What do you count as your influenc-

es?

HN: Japanese rock was a major influence — X/Japan, Porno Graffiti, BIS. I could name some more — we really liked the usage of guitar riffs and other techniques. But you know, these Japanese bands were actually influenced by Western bands. We also listened to a lot of 70's, 80's oldies — Led Zeppelin and stuff.

TT: So, Jack — how old were you when you first started playing the erhu?

HN: In elementary school? I started the violin when I was 4. You know Asian parents. Mine wanted Chinese culture to remain with me, I guess. It was a way to embrace my heritage.

TT: The erhu definitely lends a distinctive quality to the songs.

HN: Yeah, we try to combine the classical folk with other modern instruments.

TT: Well, it's awesome stuff. But I was wondering, will there be a vocalist in the future?

HN: We actually get asked this a lot. We

never really felt that we needed one. Jack's erhu is pretty much the melody. As for vocalists, we never ever encountered one that really fit with the music.

TT: I definitely agree. The erhu is more than sufficient as a substitution for the vocals. So last question — what direction do you think the band is heading in, musically and commercially?

HN: Well, I guess, just continuing to play music we like. We're also probably going to try to enter the mainstream — nothing too avant-garde. We really want people to listen to our stuff and get ourselves out there. We're actually releasing our new album *The Four Noble Truths* on March 24th. You can also find more updates about our band at our website (<http://hsu-nami.com>) and our MySpace (<http://www.myspace.com/hsunami>).

TT: Thanks so much. I understand you're based in New Jersey?

HN: It was a five-hour-long drive but it was pretty awesome playing at MIT.

## CONCERT REVIEW

# When Sound Worlds Collide

## Collage New Music Performs Contemporary, Remembers Bach

By Sudeep Agarwala

STAFF WRITER

Collage New Music

Edward M. Pickman Concert Hall

March 2, 2009

Collage New Music, performing in Longy School of Music's Edward M. Pickman Concert Hall this past Monday, articulated contemporary voices in music with a unique and refreshing ability. This isn't a complaint about contemporary music performances: it's not difficult to see that most contemporary music is performed by competent musicians and that it takes a very talented musician to play contemporary music in the first place.

When looking at music in general, one contemplates the notion of "sound worlds" — that a piece written ten or twenty years ago occupies a musical topology that is distinct from (but not unrelated to) music from the baroque era which in itself occupies a musical topology that is distinct from (but, again, not unrelated to) music from the Romantic era, the Classical era, and so on. The instruments and even ways of performing the music (issues concerning interpretations of tempo, dynamic, touch and various other aesthetics) that are specific for each of these sound worlds would seem out of place in any other. At some point we're left asking whether a musician trained in the sound world of Josquin or du Fay can even begin to approach Copland or Barber (assuming, of course, that Copland and Barber can begin to occupy the same sound world).

It's worth arguing whether or not these distinctions constitute a valid approach to listening to the vast opus of classical music, but regardless of that discussion: here was Collage Music's performance on Monday

night, and what was strikingly notable was its earnest presentation of twentieth century music.

The concert began with Christopher Oldfather at the piano presenting Donald Crockett's *Pilgrimage* (1988), a piece based on Bach's famous chromatic progression B-A-C-H (in English notation, B flat-A-C-B natural). The work begins with the first three notes of the progression and journeys through various textures and motifs to achieve the ultimate "H" (the point of arrival cruelly and mysteriously transposed six octaves above the droning B-A-C). Certainly, the music is conceived with Bach in mind, and some form of chorale or counterpoint almost continuously occupies the work. But there was more to Oldfather's performance — it was impossible not to hear an Ives-ian lament in the opening arpeggiations on the three note motif, perhaps Debussy in the growling bass of the second portion of the music, or a tempered Beethoven in the closing chorales. Something — perhaps Brahmsian or Schubertian in Catherine French's violin and Oldfather's piano, (during Andrew Imbrie's 1997 work, *Chicago Bells*) — occurred in the musicians' attention to ensemble playing as running melodies underscored the hair-raising "vivace" movement.

Judith Bettina's rich soprano in Tobias Picker's settings of two WS Merwin poems in *Two Songs* (from *Rain In Trees*) somehow brought to mind Strauss or Mahler, as melodic lines lushly blossomed in her higher range. Bettina's diction in these pieces was immacu-

late, but almost to a fault — American "r" often curdled sustained vowels and tainted her glorious musical lines.

Bettina's emotionally charged performance was followed by Picker's *Blue Hula*, performed by Christopher Krueger (flute), Robert Annis (clarinet), Catherine French (violin), Joel Moerschel (cello), Christopher Oldfather (piano), and David Hoose as conductor. This was a piece charged with the loose rhythms and harmonies of early twentieth century's curious new "le jazz" in both score and performance. It's hard not to draw the parallels between the progression in the concert's program and musical history.

The second half of

Monday's performance was somehow more neurotically introspective: this is the musical sound world that is somehow less willing to reveal its secrets at first blush.

Bettina returned for the world premiere of David Rakowski's *Phillis Levin Songs*, commissioned in 2008 for the Collage. Levin's poetry is complicated and practically beyond comprehension, and it was unclear that Rakowski had attempted to understand the poetry or interpret for the listener anywhere beyond the most superficial. Mr. Hoose's performance with Collage presented an attentive interpretation of Rakowski's difficult score, but an almost juvenile understanding of Levin's work, combined with unreasonable melodic lines that bordered on sustained "parlando vocalise" (what, exactly, does one sing when there's nothing to sing? More precisely: how?) simply seemed a molestation

the ensemble's considerable talents.

This was not so, however, in the final piece of the evening, Imbrie's *Pilgrimage*, composed for Collage in 1983. The work flourished under Hoose's leadership, employing a particular brand of attention to detail that created a surprisingly coherent ensemble out of Imbrie's otherwise fractured composition. Certainly composed with the same *raison d'être* as Crockett's piece earlier in the performance, Imbrie's work approached the subject from a very different perspective. Imbrie's *Pilgrimage* is ethereal, probing the fundamentals of harmonic series and rhythm, ending the evening in a world not disconnected from the glorious resonance of domed chapels and gothic cathedrals.

To be sure: it may be an affectation divorced from both composer's or performer's intent to hear the forebears of Western music in Monday evening's concert. Regardless, it's important to note that each of Collage's members, although performing contemporary music, do not belong solely to this sound world: each member also has a background in the more traditional Western canon (many are instructors in Boston's various conservatories).

To answer whether musicians trained in different sound worlds can interact: a resounding yes. In fact it's surprising to hear how these backgrounds informs an understanding and performance of contemporary music — that perhaps the Western opus isn't easily definable into tragically distinct inert bubbles and niches. Perhaps it's a false hope and potentially inaccurate one, but, as Monday's concert demonstrated, it may not be too unreasonable to hear music as a dialogue. It is a blurring of worlds, that despite time, locale, thought and background, allows even Bach to live within music written and performed today.

## CONCERT REVIEW

# Giants Among Men

## Handel and Haydn Society Perform Couperin and Bach

By Sudeep Agarwala

STAFF WRITER

Handel and Haydn Society

Paul Goodwin, Conductor

New England Conservatory, Jordan Hall

February 27, 2009

Stereophiles have ruined music as I love it.

The plight of modern instruments is no secret: keyboards and violins are tending towards brighter, more stereo-friendly sounds, preferring Billy Joel or Elton John to the brassy Horowitz Steinway, or the electric violin to the lyrical Heifetz Stradivarii. Or, even earlier — Beethoven's second Quasi una Fantasia piano sonata (the Moonlight) asks the pianist to depress the suspension pedal for the entire C-sharp minor first movement: a complete mess on the modern piano but a fine reality on Beethoven's boxier nineteenth century model. Earlier still, consider Bach's famous D minor chaconne from the second partita, in which Bach's violin's shallower bridge and arced baroque bow could simultaneously pull triple stops without breaking the chord — an almost-impossibility on the modern violin.

It's these archaic instruments and sounds that brought Friday evening's concert with the Handel and Haydn Society, playing works by Couperin, Bach and Purcell under conductor Paul Goodwin, to life. To be sure, the thin, nasal strings, the tinny harpsichord, and the quacking woodwind section of the baroque orchestra aren't the most marketable of sounds, and these instruments are painfully difficult to play. The baroque cello lacked an endpin and is squeezed between the thighs in order to be played, horns, almost exclusively, lacked valves and were modulated solely by changing embouchure, not to mention the fretted theorbo, which, even at no less than seven feet in length, is held like a guitar.

But baroque music was written for these instruments, and it is a sound, despite its near-cacophony, that I love.

Goodwin showed exactly how these pieces were supposed to sound. François Couperin's Concert dans le goût Théâtral practically shimmered in the Handel and Haydn Society's performance. Although tuning issues between the cello and woodwind section marred early portions of the performance and balance issues sometimes obfuscated the counterpoint early on in the piece (perhaps more a function the space of Jordan Hall than any fault of the ensemble), Friday's performance of Couperin's

work had the air and excitement of jazz; melodic lines were traded with an almost natural facility; ornamentation and French affect were fluid and were performed by members of the ensemble with the polished ease of seasoned improvisers. Of particular note, however, were instruments that were often in the background of the more complicated work: Robert Nairn frequently seemed to be on the verge of snapping his bass in two during the more vehement movements. Michael Sponseller too, although appropriately demure during the more reserved movements, effectively drove the harpsichord home in his fantastic stormy interpretations of figured bass during the faster movements.

Goodwin also led the ensemble in a performance of Johann Sebastian Bach's Brandenburg Concerto No. 3 in G Major, BWV 1048.

Before performing the work, Goodwin announced that the first movement would be an alternate form of the concerto, one that Bach reworked for the overture of his Cantata BWV 184 *Erwünschtes Freudenlicht* (historical accounts suggest that the Margrave of Brandenburg, Christian Ludwig, for whom the six concerti were first composed, was less than disinterested in the works upon receiving them — reusing the work was a mere practicality for Bach, who was charged with writing a new cantata for every week of the church calendar during his tenure as Thomaskantor in Leipzig) that added oboes and, in Goodwin's own words, "screaming horns". Friday's performance lacked the screaming horns, maintaining the oboes, which was little more than nuisance (I lie: ornamentation in the oboes during the minor re-transition to the shaggy G major recapitulation left me panting for breath).

It was curious that, even in such an exciting performance, Goodwin felt the need to add novelty to the standard repertoire. The performance continued to amaze: Daniel Stepner improvised the Phrygian cadence of the second movement (albeit ending on a slightly sour chord) and the conclusion of the final movement of the concerto required no less than three rounds of applause from the audience. Although not the cleanest of renditions of Bach's famous work, the ensemble more than made up for their lack of accuracy with a natural excitement that pervaded the entire performance.

The argument, if I understand correctly, is that the English composer, Henry Purcell, was an integrator of French, Italian, and English influences because he was imitating composers such as Jean-Baptiste Lully and François Couperin, Italian masters such as Monteverdi and Gesualdo, and continuing the choral tradition of the English composers Thomas Tallis and William Byrd. Purcell is also considered an innovator because of his novel use of the countertenor voice (creating castrati were considered a barbaric practice by the almost-entirely Protestant English).

None of these seem like particularly good reasons to ascribe the level of genius that often accompanies the composer. Purcell was writing music in the late seventeenth century while his Italian and English forebears had developed their signature styles nearly a century prior, and

Friday's concert aptly revealed that although Purcell was a near contemporary of Lully and Couperin, the French were producing more sophisticated works of music, especially when compared to the English master.

Sandwiched between Couperin's Concert dans le goût Théâtral and Bach's Third Brandenburg Concerto, Purcell's Funeral Sentences, composed for octet, seemed like a cruel joke. To his credit, Purcell's work was not without some merit — in true English form, Purcell's anthem incorporated and developed the rich chromaticism and use of cross-relation that were characteristic of his Elizabethan predecessors, Tallis and Byrd (Purcell was writing during the reign of King Charles II and James II). And Purcell's writing is not without imagination — although heavy-handed in its symbolism, Goodwin was right to ask the choir to gliss down a seventh interval when singing the text "... to fall from thee ...". But Purcell's funereal choral piece (with portative organ as sole accompaniment) was stodgy English music that didn't seem to impress the choral singers, many of whom were solidly buried in their scores and seemed unattached to the music. And who could blame them? Sandwiched between works from two of the great creative minds of the mid to late Baroque era, it had no chance but to seem boring.

Purcell's "Masque" in Dioclesian utilized the full orchestra and choir in the second half of Friday's concert, but still never quite man-

*"The second half ... was somehow more neurotically introspective: this is the musical sound world that is somehow less willing to reveal its secrets at first blush."*

*"It was curious that, even in such an exciting performance, Goodwin felt the need to add novelty to the standard repertoire."*

### Phish Friday (and Saturday and Sunday, too!)

Tonight, legendary jam band Phish will perform their first concert in over 4 years at the Hampton Coliseum in Virginia. Their highly-anticipated three night residency will answer the question on every hippie's mind: is Phish good again? If you're not already on your way down to the venue, then don't worry. Head to <http://livephish.com>, where you can download free mp3s of each night's gig. Check out next week's edition of *The Tech* to read about the highlights from the weekend and predictions for Phish's upcoming summer reunion tour.

RESTAURANT REVIEW

# Hipster Dragons and Funky Haikus

## Myers+Chang Provides a Fun (and Cheap) Date Night

By Joanne Shih  
STAFF WRITER

Myers+Chang  
1145 Washington Street, Boston, MA  
South End  
(617) 542 5200

A blizzard may keep me from going to class, but I refuse to let the elements hinder my food critiquing endeavors. So, I braved the cold on Monday night with a friend to try Myers+Chang, an Asian fusion “funky indie diner” in the South End. Run by owner and chef Joanne Chang and executive chef Matthew Barros, the place gives off an upscale yet casual, retro-modern feel, with mod off-white cushiony seats and pink, borderline-kitschy bar stools. Bright pink dragon designs adorn the glass exterior, and inside are red and white lights amidst white bauble lanterns. We were pleasantly charmed before the food even arrived by the playing music, which included Stevie Wonder’s “Isn’t She Lovely” and Death Cab for Cutie’s “A Lack of Color.”

Sunday through Tuesday evenings, Myers+Chang offers Cheap Date Night, a way to try a generous sampling of their Asian tapas-like dishes. Among the selection of dates are menus with names like “The Hot Date,” “The Healthy Date,” “The Vegetarian Date,” and “The Pig Out Date.” At \$40 per couple, the deal seemed like a good idea. We were feeling adventurous, so we settled on “The Blind

Date,” the chef’s choice tasting menu. We requested that their fried chicken (I had heard good things) be incorporated in our meal, and we were gladly accommodated by our waitress.

Our first two dishes were rather uneventful. Green papaya salad garnished with cilantro, chopped peanuts, and red chilis lit a small fire in my mouth, but other than the spiciness, I wasn’t too impressed. This was quickly followed by a plate of mostly unremarkable crispy spring rolls filled with leeks and accompanied by sweet dipping sauce. When the waitress brought out bowls of red kuri squash soup for us next, I started to wonder if perhaps we had ordered the vegetarian date by accident, but, after a couple spoonfuls, I decided I could be vegetarian — at least for the duration of this soup. Drizzled with mild red chili oil, the creamy soup was sweet with savory tones of curry, and the rich flavor was extremely satisfying (not to mention filling).

Next was the highly anticipated Myers+Chang fried chicken, which arrived

on a plate decorated with coconut cilantro puree, sweet and hot dipping sauce, and a lime garnish. The chicken met my expectations — delicately fried to a perfect crisp on the outside (there’s hardly any batter coating the meat) and juicy on the inside. The coconut cilantro puree was refreshing but I found the dipping sauce to be a better complement to the chicken. Thankfully, our waitress preemptively brought us a stack of moist towlettes, warning us, “You get involved with the chicken.”

Our final dish, along with a bowl of brown rice, came out sometime during my involvement with the fried chicken — a bowl of homestyle stirfry with soft tofu, black peppered pork, kimchi, and bok choy. The mixture of tofu, pork, and vegetables was definitely not the most beautifully presented item of the night, but the point of homestyle cooking is never the aesthetics but more so the rate at which you can get it into your stomach. And though it was nothing groundbreaking, the pleasantly smoky, peppery flavor of the dish was both appetizing and comforting. Of all the items we tried, this may

have been the only one that did feel like a traditional home-cooked dish.

For \$5 extra as part of the Cheap Date menu, we could add a dessert. Seeing as how we weren’t aiming to be health-conscious in the first place (we had emphatically rejected the healthy date option), we caved in and ordered a frozen vanilla bean parfait with orange granita. The pairing of the buttery richness of the ice cream with the granita, a refreshingly tart treat, was perfect, with the exception that I was nursing a food baby by this point.

**Verdict:** Go for the funky ambience — not solely for the food — and you won’t be disappointed. Take advantage of the Cheap Date Night deal — for the amount of food we got, it’s definitely the best way to go without digging an unjustified hole in your wallet.

**Tips before you go:** The restaurant is right next to the East Berkeley Street stop on the Silver Line. If you’re afraid of silences, sit near the haiku corner by the bar or any of the marker-graffitied mirrors for a surefire way to start a conversation. (I make no guarantees of the quality of the conversation though; the pithy gems include phrases such as “Dragons make nice pets ... in bed.”)

**Good for:** vegetarians, omnivores, brown rice lovers, hipsters

**Bad for:** people who don’t like to share, germaphobes (unless you horde your dishes), Asian-food elitists, people who don’t want to be considered a cheap date.

**Good for:** vegetarians, omnivores, brown rice lovers, hipsters

**Bad for:** people who don’t like to share, germaphobes (unless you horde your dishes), Asian-food elitists, people who don’t want to be considered a cheap date.

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**WRUSH Gigi Torres Ridonk**  
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## Steal My Comic

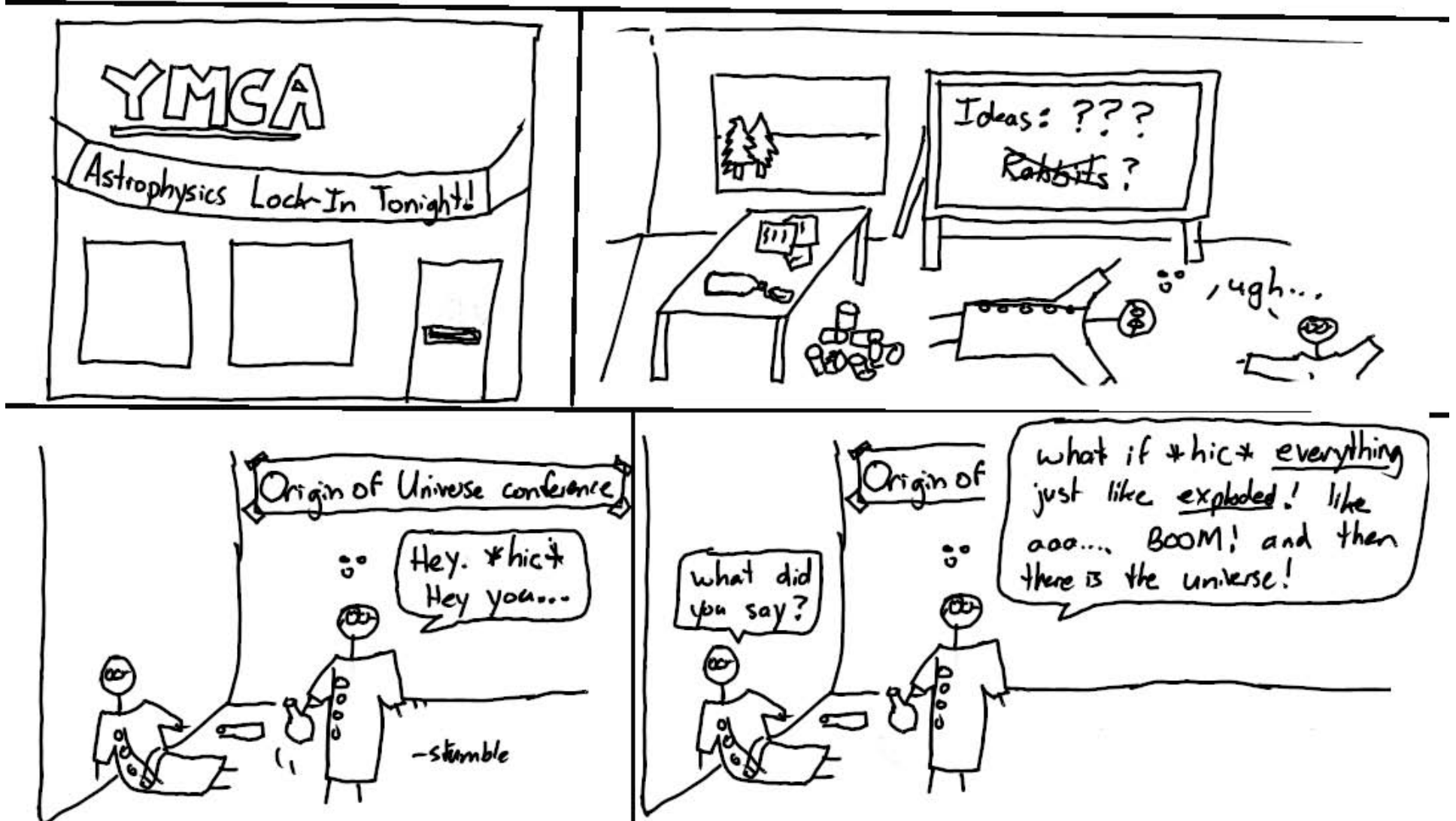
by Michael Ciuffo



## The Daily Blunderbuss

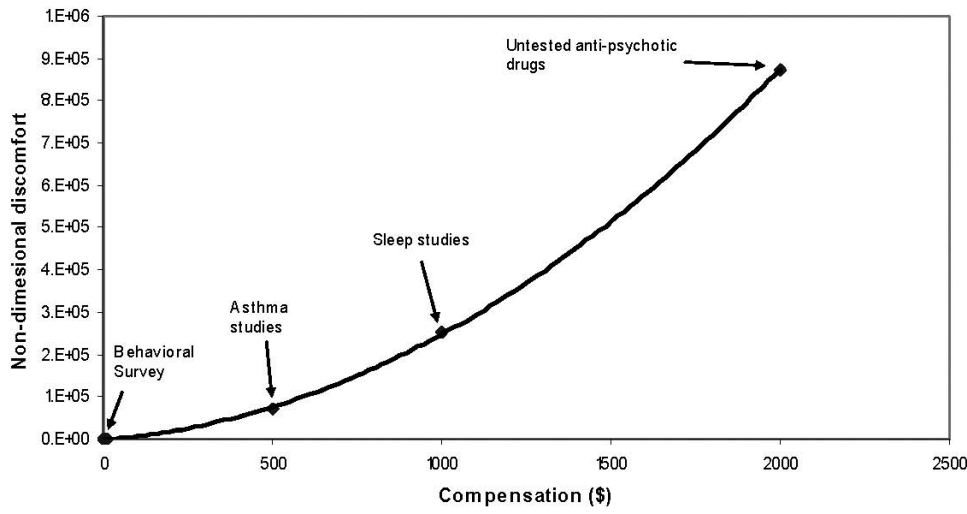
by Ben Peters

The origin of the Big Bang Theory.



# Pseudoscience

by Daniel Klein-Marcusamer



**Figure 51.** The figure shows the non-dimensional discomfort of different studies available to students as a function of monetary compensation. As shown, the discomfort grows much faster than linearly ( $f(x) \sim x^n, n > 1$ ), which implies that the pay does not fairly capture the decrease in health or similar parameters associated with such studies. In other words, the curve indicates decreasing marginal returns on discomfort. This observation also explains why the studies are targeted to the student population: they usually discount their future well-being more steeply than other groups. The same fact explains other vices common to the student population, such as smoking or eating at La Verde's. (Associate Editor for this Figure: Monica Martinez-Bravo. Archives, comments, and more fun @ <http://pseudocomic.blogspot.com>)

# su | do | ku

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. Solution on page 12.

© Puzzles by Pappocom

2					3			
	8	5			6	7		
	6				8		9	
		9					7	
6			7		2			3
	5					6		
	2		3				6	
		4	2			3	5	
			1					4

Solution, tips, and computer program at <http://www.sudoku.com>

# Crossword Puzzle

Solution, page 12

1	2	3	4	5	6	7	8	9	10	11	12	
13					14			15				
16					17			18				
19								20				
21				22				23		24	25	26
			27			28	29			30		
31	32	33				34				35		
36					37					38		
39				40						41		
42				43				44				
45			46					47		48	49	50
			51			52	53			54		
55	56	57				58						
59						60				61		
62						63				64		

**ACROSS**

- 1 Chocolate tree
- 6 W-2 info
- 9 Utter an orison
- 13 Pontificate
- 14 Pie \_\_ mode
- 15 Communicate by letter
- 16 Euphemistic exclamation
- 18 Pluto's realm
- 19 Fashion update/done to death
- 21 Surgery rms.
- 22 Hi-\_\_ graphics
- 23 Wonderland service
- 27 DDE's rival
- 28 Man from Tarsus
- 30 Nev. neighbor
- 31 Insurance giant
- 34 Richard's Agnew
- 35 Guitarist Paul
- 36 Meeting of minds/pressure line?
- 39 Humerus place
- 40 Monopoly cards
- 41 Persnickety
- 42 Lincoln center?
- 43 Poker stake
- 44 Wernher \_\_ Braun

**DOWN**

- 45 Not anchored
- 47 Long fish
- 48 Weekday abbr.
- 51 Carmichael classic/broom buddies
- 55 Canadian leaf
- 58 Just imagine!
- 59 Mystery award
- 60 Comfy shoe
- 61 Home planet of Queen Amidala
- 62 Rich, dark soil
- 63 Hindu title
- 64 Certain collars
- 15 Game show classic
- 17 Park and Lex.
- 20 \_\_ und Drang
- 24 Storage facilities
- 25 Utopias
- 26 Mm-mm good!
- 27 Singer DiFranco
- 28 Josiah of bone china
- 29 Affectations
- 31 Bananalike plant
- 32 Missed the mark
- 33 Gentler
- 34 Leave text as is!
- 37 "The Flying Dutchman" girl
- 38 Take off
- 44 Enormous
- 46 Muslim faith
- 47 Italian luxury goods maker
- 48 Boxing-like exercise
- 49 Merger
- 50 These, in Leon
- 52 Turning figs.
- 53 Fashionable Christian
- 54 Kind of fall?
- 55 Actor Gibson
- 56 Small ruckus
- 57 Links org.

# Doonesbury

BY GARRY TRUDEAU

# Dilbert® by Scott Adams

Helpdesk

by Michael Benitez

Things I learned from 8.01

**TEAL.**

CERTAIN WORDS CAN SNAP PEOPLE INTO CONSCIOUSNESS.

...CONCEPT QUESTION...

PRS: Frequency of Pendulum

What is  $\omega$  of a Pendulum of length  $L$  and mass  $M$ ?

- $\sqrt{\frac{g}{M}}$
- $\sqrt{\frac{g}{L}}$
- $2\pi\sqrt{\frac{L}{g}}$
- banana

RESULTS:

10%	31%	7%	52%
1.	2.	3.	4.

THE OPPORTUNITY FOR SARCASM WILL BE SEIZED UPON.

MAYBE NOT WORTH ITS WEIGHT IN GOLD, BUT STILL TOO MUCH.

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PLATINUM	1064.00
RHODIUM	1050.00
GOLD	930.40
TEAL CLICKER	41.50
SILVER	12.90

AND WHENEVER YOU DON'T KNOW THE ANSWER, ZERO IS ALWAYS THE BEST GUESS.

What gravitational force does a mass  $m$  feel at the center of the Earth?

1. $\frac{GmM}{R^2}$	3. zero
2. $mg$	4. $\frac{MG}{R}$

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Refreshments will be served

http://web.mit.edu/gordonelp

# Nightline

We're here to listen. 3-8800

# MacVicar Day Celebrates Work of UROP's Founder

Teaching Prize, from Page 1

this year's candidates, "as always we look for excellence in teaching as evidenced by the innovation and care in the classes as well as the student comments."

Bulovic said that receiving the award was a humbling experience because he was being recognized both by his colleagues and, most importantly, his students. Jackson said, "What's wonderful about [the Fellowship] is that it funds innovations in education, and it gives you an opportunity to talk to other people who are excited about teaching at the Institute."

When explaining the methods that they thought made them effective teachers, all of the professors stressed that engaging students in a conversation was crucial. Bulovic said that learning happens best when the teacher can respond to matters that are on students' minds. "If I'm answering what they're passionate about, that's what they'll remember," he said.

Having a conversation in a large lecture-style class can be difficult. In order to explain material clearly, Jackson said, "I try and make the assumption, whenever I am preparing for class, that all of my students are very clever and totally ignorant."

The winners also agreed on the importance of sharing compelling and relevant examples that make class ideas more personal for students. Jones talked about directing his Disease and Society In America (STS.005) students to take walks through the neighborhoods of Boston while trying to find reasons for the disparities in the health data from each. Bulovic commented on the current MIT curriculum saying, "The remarkable thing about MIT is that we have a curriculum that makes all of our students technically savvy."

In addition to her teaching responsibilities, Henderson also serves as the dean for curriculum and faculty. "It's important for students to understand different approaches to knowledge," she said.

Jones said that he fully supported the 2008 change from double degrees to double majors which reduced the number of units required because "it allows engineers to more easily do serious work in STS."

In addition to the certificate that the new Fellows were awarded last night, they will also receive \$10,000 per year through the next 10 years for curriculum development and improvement of teaching methods.

MacVicar Day and the MacVicar Fellowships are named after Dean for Undergraduate Education Margaret MacVicar, who died in 1991. MacVicar founded MIT's Undergraduate Research Opportunities Program (UROP) and had a strong influence on MIT's undergraduate program.

Jones already has some plans for his money. He would like to "hire people to create better visualizations" of health data, an endeavor which he says could have a big impact on students in his classes. Henderson hopes to develop more

cross-disciplinary subjects like the class she is currently co-teaching with Professor of Theater Arts Ja-

net Sonenberg, Learning from the Past: Drama, Science, Performance (21L.016).



BRIAN HEMOND—THE TECH

Literature Professor Diana Henderson was named a MacVicar Fellow this year for excellence in teaching. Henderson's areas of research include gender studies, Shakespeare, modernism, and world drama.



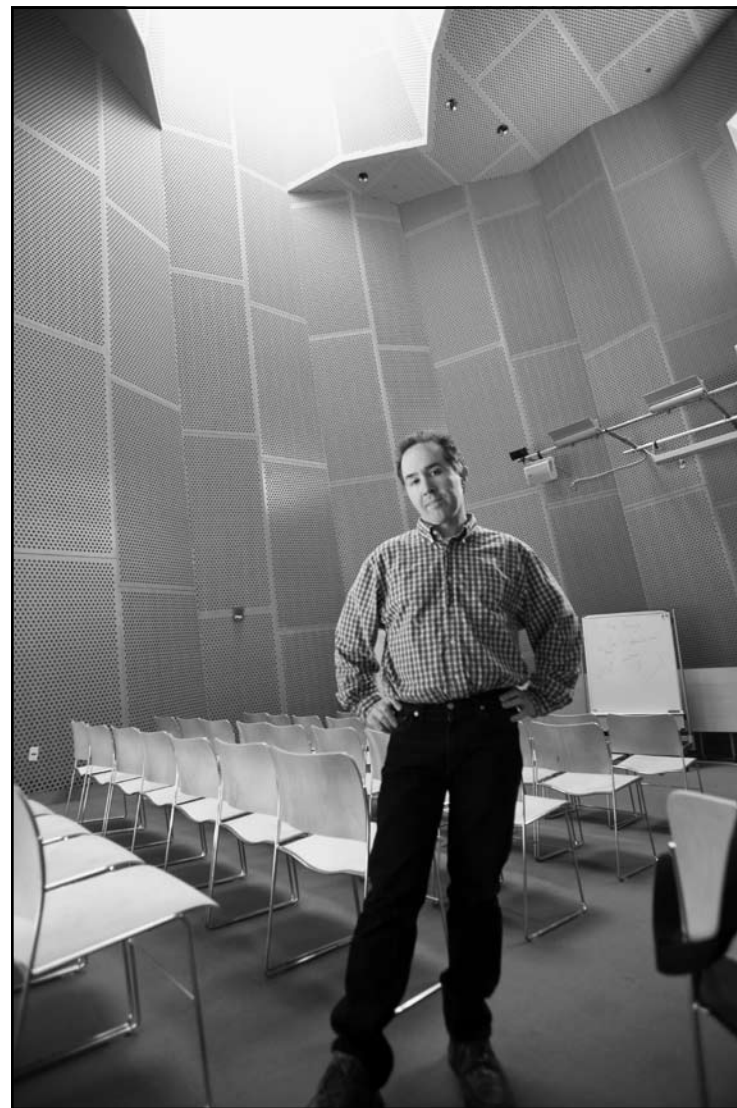
JESSICA LIN—THE TECH

Electrical Engineering and Computer Science Associate Professor Vladimir Bulovic stands in his lab next to an integrated materials growth system, used in the development of nanostructure optical and electronic devices. He is one of four professors named MacVicar Fellows this year for excellence in teaching.



ERIC D. SCHMIEDL—THE TECH

Associate Professor in Science, Technology and Society David Jones, shot in high dynamic range, was named MacVicar Faculty Fellow this year for his outstanding teaching. Jones, besides teaching, has led for the past four years a series of conferences about race, science and technology.



ARTHUR PETRON—THE TECH

MacVicar winner Daniel Jackson, professor of Electrical Engineering and Computer Science, was nominated by students and faculty for his contributions to teaching. Jackson studies software engineering in CSAIL's Software Design Group.

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# Admissions Cuts Won't Affect Minority Recruitment

**Admissions**, from Page 1

employees' workload, Schmill said. "We're gonna figure out how to become more efficient," Schmill said, and "we're gonna figure out how to do things a little bit differently."

**Online recruiting efforts increase**

As part of that difference, Admis-

sions is steering its recruiting efforts away from travel to attempts to reach more prospective freshmen online.

To accommodate a 15 percent budget cut, Harvard's admissions office cut its travel budget in half, eliminating virtually all high school visits, *The Harvard Crimson* reported on Tuesday.

"We will likely have to cut back

our travel as well," Schmill said. Admissions will likely cut its travel budget by one third to one half, he said.

The cut means that MIT will visit fewer high schools, although "we have done significantly less of that anyway than some of our peers." But some visits will still happen as part of a "targeted outreach" program.

Although expensive, MIT's traveling regional information sessions do work. "We've always had very, very strong attendance," Schmill said. "The feedback that we have gotten from the sessions have been very positive ... So it does help us recruit."

But "visits to specific high schools have had more mixed results," Schmill said in an e-mail.

Admissions staff will continue to travel to parts of the US where they think students are not already being pointed towards MIT. Underserved areas, in particular inner cities, will be a focus, Schmill said.

Schmill has already begun the cuts, cancelling a planned trip to New York City to visit spring college fairs. Instead, Admissions has asked alumni in the area to do outreach.

That request may come naturally to Schmill, who before becoming Dean of Admissions was head of the Educational Council, the group of alumni who volunteer to recruit and interview prospective students.

"Leveraging alumni is a great idea ... we should be doing it regardless" of budget concerns, Schmill said.

Schmill has other ideas for changing the way students apply to schools. By redirecting travel funds toward a "more robust Web site," Schmill is staking the future of MIT's admissions on the promise of Internet community.

How, exactly, could the MIT admissions Web site stand to improve? Schmill said he doesn't want to change anything about the *mitadmissions.org* blogs. But he had in mind "more kinds of Web communications, like video."

And to cut costs, paper mailings will be largely supplanted by outreach online through the Web.

The Web is "the most egalitarian way to communicate," Schmill said.

**Some spending is still safe**

Some recruiting costs won't be cut.

Recruitment targeted at minority and low-income students will continue with no budget cuts, Schmill said. "We may well enhance some of our targeted recruitment efforts," he said. Currently, MIT keeps in touch with specially chosen high schools and reaches out to community-based organizations and to local Boston-area schools.

Admissions also funds trips to visit the MIT campus for some admitted students whose financial situation would make it hard to travel. Schmill said he is "fully committed" to supporting those expenses.

In fact, Campus Preview Weekend is not expected to change much, although Admissions will try to make minor reductions to the budget. "It'll look very much the same," Schmill said.

And what about recruiting exceptionally high achievers, the so-called "superstars" that MIT recruits aggressively?

Athletic superstars are largely the responsibility of MIT coaches, not Admissions. For music superstars, MIT will continue to connect students with music faculty.

And for other superstars in academics or extracurricular activities, Admissions will largely continue to make special visits to events across the country to attract students such as national competitors in the FIRST Robotics competition or entrants to the Intel International Science & Engineering Fair.

Even as Admissions plans to spend much less to go see prospective students, recruitment travel will be "targeted" and "focused," Schmill said.

"I don't think this will have an effect on our ability to recruit the best students," he said.

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Saturday, March 7, 2009 at 8 pm

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Piazzolla	Tangos for wind quintet (arr. Scott)
Gubaidulina	Quasi hoquetus for viola, bassoon, & piano
Ibert	Aria for flute, clarinet, & piano
Brahms	String quintet in F, Op. 88

### Boston Modern Orchestra Project John Harbison: A Winter's Tale

Friday, March 20, 2009, at 8pm

Jordan Hall at New England Conservatory

John Harbison Winter's Tale (1974, rev. 1991)

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Monday - Friday

2 - 5:30pm in person, first-come, first-served only

<http://web.mit.edu/arts/see/freetickets/index.html>

#### Solution to Sudoku

from page 9

2	9	7	5	1	3	8	4	6
4	8	5	9	2	6	7	3	1
1	6	3	4	7	8	2	9	5
8	3	9	6	5	1	4	7	2
6	4	1	7	9	2	5	8	3
7	5	2	8	3	4	6	1	9
5	2	8	3	4	9	1	6	7
9	1	4	2	6	7	3	5	8
3	7	6	1	8	5	9	2	4

#### Solution to Crossword

from page 9

C	A	R	O	B	S	S	N	P	R	A	Y			
O	R	A	T	E	A	L	A	W	R	I	T	E		
S	O	N	O	F	A	G	U	N	H	A	D	E	S	
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L	O	A	M			S	R	I		E	T	O	N	S

# Call for Nominations!

## 2009 Student Art Awards

### LAYA and JEROME B. WIESNER STUDENT ART AWARDS

The Laya and Jerome B. Wiesner Student Art Awards are presented annually to up to three students (undergraduate or graduate), living groups, organizations or activities for outstanding achievement in and contributions to the arts at MIT. Established in 1979, these awards honor President Emeritus Wiesner and Mrs. Wiesner for their commitment to the arts at MIT. An endowment fund provides a \$1,250 honorarium to each recipient.

<http://web.mit.edu/arts/about/awards/wiesner.html>

### LOUIS SUDLER PRIZE IN THE ARTS

The Louis Sudler Prize in the Arts is presented annually to a graduating senior who has demonstrated excellence or the highest standards of proficiency in music, theater, painting, sculpture, design, architecture or film. The Prize was established in 1982 by Mr. Sudler, a performer in the arts and an arts patron from Chicago. An endowment fund provides a \$1,250 award to the honoree.

<http://web.mit.edu/arts/about/awards/sudler.html>

Please send nominating letters by Friday March 20, 2009 to:

Susan Cohen, Director, Council for the Arts at MIT- E15-205

[cohen@media.mit.edu](mailto:cohen@media.mit.edu)

<http://web.mit.edu/awards/>

# Graduate Student Inventor Battles Cancerous Tumors

Lemelson-MIT, from Page 1

cells. Once the tumors have been found, the nanorods' high absorption ability allows them to be heated up to toxic levels using infrared light, killing all nearby tumor cells.

At age 28, von Maltzahn has already made a significant impact in the fields of medicine and nanotechnology. He has not only submitted 19 scholarly papers and eight patent applications, but he has also founded two companies: Nanopartz, Inc. and Resonance Therapeutics.

"The significant motivation behind my work," von Maltzahn said, "is seeing the toxicity and limited efficacy of cancer therapy."

"Less than one percent of chemotherapy drugs go to tumor cells," von Maltzahn said. The remaining 99 percent of the drugs maliciously affect normal healthy cells, resulting in undesirable side effects like hair-loss and nausea.

Von Maltzahn has dedicated his time to developing new treatments that will minimize therapy side effects and improve tumor eradication.

In fact, he noted that the particles act similarly to antennas and can absorb infrared radiation 10,000 times better than chlorophyll.

Von Maltzahn explained that in laboratory trials involving mice, all of the tumors were eradicated in only two weeks using this approach.

To introduce his nanorod invention to industry, von Maltzahn founded a company called Resonance Therapeutics this past fall. This spring, he will be looking for seed funding to support his new entrepreneurial venture. The company owns exclusive rights to his nanorod cancer treatment in clinical applications.

Although it may take five to ten years to introduce the nanorod therapy to current cancer therapy treatment, von Maltzahn is optimistic of its potential, saying "the time line is long, but we're hopeful that this could make a difference for patients."

On Apr. 24, von Maltzahn will defend his thesis which entails a systems approach to tumor detection. "By engineering nanoparticles to communicate," said von Maltzahn, "tumor therapy and detection may become much more efficient."

Von Maltzahn explained how in natural systems, like the immune system, particles interact to create a network that can quickly detect



ANDREA ROBLES—THE TECH

2009 Lemelson-MIT finalist Erez Lieberman G explains his invention, the iShoe, to a local middle school student, Mickaella Casseus. The iShoe can be placed in any shoe and wirelessly connects to a laptop to provide physicians with diagnostic information about the wearer's sense of balance. Geoffrey von Maltzahn G won the Lemelson-MIT Student Prize, awarded to promising inventors, for his work on cancer therapy.

illnesses and other abnormalities. Von Maltzahn hopes to implement the same network with his tumor-detecting nanoparticles: if one particle detects a tumor, then all other particles will also know the location of that tumor.

Von Maltzahn has won several awards for his research including MIT's Outstanding Undergraduate Research Mentor Award, the National Science Foundation Graduate Research Fellowship, and the Biomedical Engineering Society Graduate Research award. He is

also an active participant in MIT's Undergraduate Research Opportunities Program (UROP), supervising fourteen undergraduates and helping them get involved in cancer therapy treatments.

Every year, the Lemelson-MIT Program recognizes an MIT senior or graduate student who has demonstrated innovation and invention in his or her field. A diverse panel of MIT alumni specially selected by the Lemelson-MIT program determines the winner of the \$30,000 award. Past student winners include last

year's recipient Timothy K. Lu '03, who is currently pursuing his M.D. for his work involving gene detection and sensing.

In addition to the \$30,000 student prize, the Lemelson-MIT program also awards inventors with its prestigious \$500,000 Lemelson-MIT

Prize and \$100,000 Award for Sustainability. The Lemelson-MIT program will announce the winners of these awards later this spring. More information on the prizes and past winners is available on the Lemelson-MIT program website, <http://web.mit.edu/invent>.

### Eating Disorder Treatment Treatment of Adults Suffering from Anorexia and Bulimia Nervosa



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# COURSE 22 NUCLEAR SCIENCE AND ENGINEERING FRESHMAN OPEN HOUSE

TUESDAY, MARCH 10, 2009

2:00 – 4:00pm

Twenty Chimneys (3<sup>rd</sup> floor, Student Center)

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[join@the-tech.mit.edu](mailto:join@the-tech.mit.edu)



ARTHUR PETRON—THE TECH

Rebecca J. Heywood '12 presents her team's design for a build-it-yourself night light on Wednesday, March 4 as part of 2.00B (Toy Product Design). Each team got a chance to present four ideas that centered around this year's theme, "The Arts."

# Hamentashen Is Like Star Trek; X-Rayed Latke Produces Images

**Jewish Pastries**, from Page 1

wall. Team Hamentashen's frog flew the closest, and opted for the latke side to serve. Both sides used contradictory historical, theological, and scientific "evidence" to support their respective delicacies.

**Germey Pastries in History**

David Jones opened with the "Forgotten Role of Latke in Development of Germ Theory." He presented a Centers for Disease Control and Prevention report on a salmonella outbreak from spoiled latkes at a Hanukkah party. Skeptical of the accusation, Jones decided to get to the bottom of it.

In his search, Jones claimed he came across a writing by someone who tried to grow tuberculosis bacteria on an abundance of leftover hamentashen, since "no one wanted to eat any of them." However, the pastries were quickly contaminated with mold.

The author later discovered that latkes provided a more sterile condition to grow the sputum because of their oily surfaces.

Jones concluded that latkes couldn't have been spoiled and contaminated with salmonella.

The real culprit is the hamentashen, he declared, pointing to an overlooked photo of spoiled hamentashen left on the party trays by the catering company the party hosts had hired.

**The Birds and the Bees**

Leighton spoke first in defense of the hamentashen, praising its popularity as a favorite treat at OPEC meetings and its resemblance to the Star Trek uniform emblem. "Where do all the hamentashen come from?" he asked before unveiling the explicit content of hamentashen procreation.

Leighton arranged two 9" by 10" triangular pastries into a 90 square inch rectangle, shifted them diagonally, and sliced off the protruding two triangular corners to form two new baby hamentashen.

If hamentashen can keep growing and reproducing, he said, their exponential growth could solve world hunger! Of course, you can't do the same with round latkes. "Latkes don't have sex," he said. "They are shredded potatoes!"

**Energy storage, sustainability, and ... the Apocalypse?**

The battle of the chemists ensued. Sadoway was the first to step up to the plate. He structured his

argument on environmental impact. Hamentashen production factories cause pollution while latke production is water-powered, clean, and quiet, he said.

In recent NTSB findings regarding USAir 1549, a plane was forced to land in the Hudson River because of large Canadian geese attacking the engines.

Why did the geese attack the plane? The answer, according to Sadoway, was revealed in the stomach of one goose. New Yorkers had fed them hamentashen, which drove them mad.

Steinfeld spoke second on behalf of the hamentashen. In comparison to an oil-drenched latke, the hamentashen has better sustainability. Steinfeld brought a visual aid, a trophy with a six-year-old hamentashen and latke. The latke portion was missing, disposed of as hazardous waste. The aged hamentashen, however, is in still "good shape."

"It's growing a bit green," said Steinfeld. "This is good, because MIT is going green."

Professor Nelson, the last of the chemists to present, appealed to latke supporters with evidence that lies in the inherent structure of the hamentash and latke.

"I have been chosen by God to tell you a story of good and evil," he declared. "Haman, the villain of the story, sought the fiery death of all Jews. Every bite of every hamentashen you will ever eat is filled with the soul of Haman!" The circular latke is superior in symmetry in comparison to the triangular hamentashen, said Steinfeld. When samples of both foods were submitted for X-ray diffraction, the diffraction pattern of the hamentashen displayed the face of the devil. The latke, on the other hand, projected the Star of David and the yin-yang.

In ancient Zapotec, the Hamentash means "the death of innocents," he said. He finished his case, encouraging the audience to support the round symbol of peace.

**The Inconvenient Truth**

"We, the hamentashen party, have tried very hard to reach out to those of the other party," said Wolfe, who proceeded to take an etymological perspective in defending the hamentashen.

"The original name of the latke is 'Tohu,'" he said, displaying a picture of latke with a picture of tofu. He claimed that the hamentashen resembles the "Lechem Da'at," the bread of knowledge. "Who am I to tell you that-what-it-is you should choose," he questioned the audience, showing a display of a hamentashen connecting the words "understanding," "wisdom," and "beauty" by its corners, along with a latke paired with mushy tofu.

Wolfe ended his argument with experimental data on rodent output for latke, hamentashen, and cocaine. "We all know that that lab rats will work much harder for latkes," he said, but that does not necessarily mean latkes are better, Wolfe argued. Mice also work hard for cocaine, which completed the upward trend on the graph.

As the debate closed with witty and stringent rebuttals from Wolfe and Nelson, two students wearing latke and hamentashen costumes took a hand-raise poll to determine the winner. Sive declared that the audience was split between the two sides. Trophies for the professors were handed out to commemorate the tie. Free hamentashen and latkes were served afterwards in Lobby 10.

**LEGAL COUNSEL**

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- "I am just a heap of atoms." Is that a coherent statement? Where does the "I" come from?
- Is the purpose of science to understand or just to meet our bodily needs?
- Why do bookstores have separate "science" and "nature" sections? Isn't science about nature?
- Are humans forever destined to be

aliens to the universe? Or does our ordinary experience count for anything?

Join us at MIT the week of June 15<sup>th</sup> to begin considering these questions with the care they deserve.



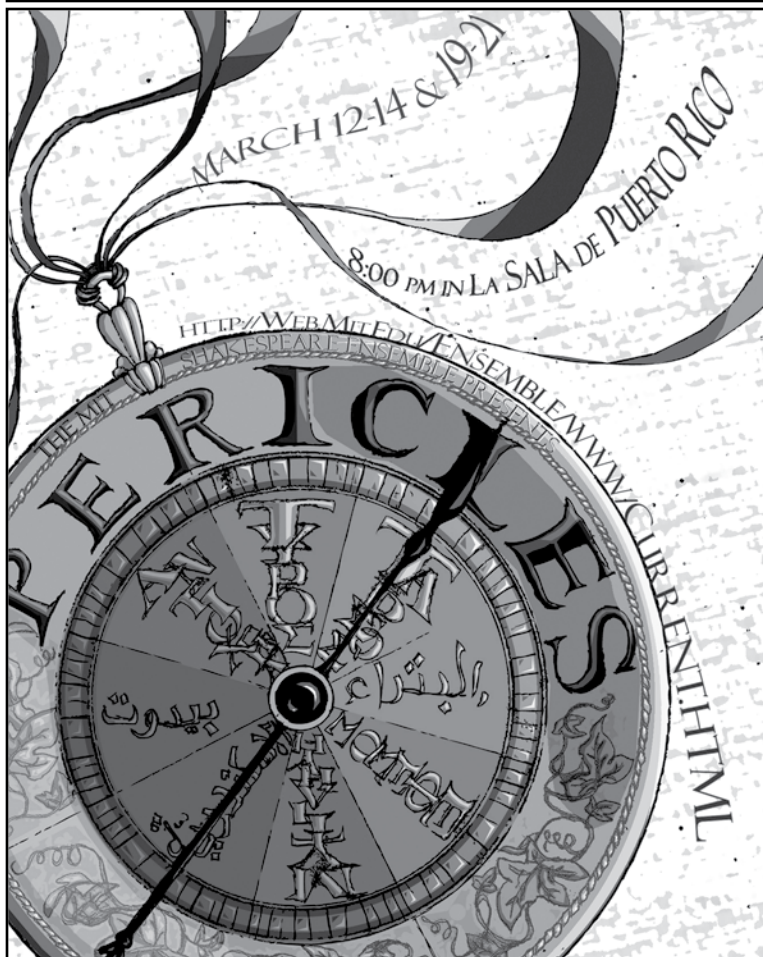
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# MIT Plays Tonight in Div. III Tournament First Round Contest

**Men's Basketball**, from Page 16

much about each other and about playing and winning for each other." "It's awesome we get to keep this ride going and now we're all just focused on winning six more games and extending this journey for three more weeks."

The next stage of that journey begins tonight as the Engineers embark on their NCAA tournament bid, facing Rhode Island College at 6 p.m. in RIC's Murray Center in Providence. Asked

about the tournament, Johnson said, "We're pumped. We're ready to keep making history, but more importantly, make MIT proud. This one's for the nerds!" Two fan buses will be leaving from Amherst Alley at 4:30 p.m. Tickets are \$6.00 for general admission, and \$3.00 for students with an ID. The game will also be broadcast live at <http://riccollege.ezstream.com/play/index.cfm?id=121FA01A9A>. The full tournament bracket is available at <http://www.d3boards.com/playoffs/mbbbracket2009.pdf>.

# Racz Swimmer of the Year and Stumbaugh Rookie of the Year '09


**Men's Swimming**, from Page 16


for the Engineers as David C. Parell '12 closed in 2:08.94 and Alejandro Dos Reis '12 swam 2:09.49. John R. Walk '10 finished eighth in the race as MIT swimmers boasted half of the field. Adding to Tech's success in the event, rookie Yang Yang '12 secured a four-second victory in the consolation final.

Taking three of the top five spots, MIT once again flexed its depth in the 200 fly. Matthew R. Chapa '12 erased one of the oldest records on the Institute's books to pace the effort, finishing second overall in 1:53.75. The final time eclipsed Andy Renshaw's '84 swim of

1:54.30 set during the 1982-83 season and resulted in an NCAA "B" cut. Toomas R. Sepp '11 finished fourth in the race, with senior Deke Hu '09 closing in fifth.

The Engineers put the finishing touches on their dominating team win with another record-breaking relay effort. Finishing first in 3:03.07 in the 400 free relay, the team of Wellings, Cummings, Pierson, and Charpentier smashed the school record by two seconds while wiping out the NEWMAC open and championship marks. Cummings and Charpentier were both under 45 seconds for their splits, with Charpentier reeling off a meet-best 44.19 to anchor the victory.





# Combatants for Peace

## Monday, March 9th

### 7pm in 54-100

Hosted by: MIT Amnesty International, MIT Grad Hillel, MIT Students for Israel, MIT Arab Students Organization and the Addir Fellows

**Combatants for Peace is a group of Israeli soldiers and Palestinian fighters who have decided to lay down their arms and to realize their vision of resolving the conflict by peaceful means.**



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*Do you know anyone who has served in the military? What do you think when you see someone in uniform?*



Rob Berschinski did ROTC at Yale and served as an Air Force intelligence officer in Korea, Germany, Rwanda, and Iraq.



Maura Sullivan is an MBA/MPA at Harvard. She served as a Captain in the Marines, completing tours in Iraq, Japan, and Korea.



Tyson Belanger holds a B.A. from Yale and is a Harvard Ph.D. candidate. He has served 5 Marine tours, 3 in Iraq.



Rye Barcott is an MBA/MPA student at Harvard. He attended UNC-Chapel Hill on a ROTC scholarship and served in the Marines in Iraq, Bosnia, and Africa.



Doug Raymond received a Harvard MBA and served as an Armor and Military Intelligence Officer in the Army.

**Our democracy is built on civilian control of the military. But for too many years, civilian elites and military service members have lived in different worlds.**

What are some ways you can connect with peers serving in the military? Here is some advice from recent graduates:

- Don't confuse politics with military service. Military service members often join to protect the defenseless or to stand against genocide. They choose to serve their country. They do not choose their wars.
- Never declare that someone killed in war died in vain. Officers take a vow to our constitution. Many die protecting friends within their units. Even if civilian leaders have made serious strategic mistakes, the sacrifices of service members have meaning.
- When you say you support the troops—do something! Troops coming home often feel dislocated—they return from the stress and carnage of war to a country that seems to be going on without them. Connect. Organize your friends to pack care packages. Volunteer at a local veterans hospital. Visit a local base.
- Finally: Learn more. Our military serves under civilian command. As future leaders, you should know how our military works. Build your leadership ability, visit: [www.trumanproject.org/military101](http://www.trumanproject.org/military101).

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[www.trumanproject.org](http://www.trumanproject.org)

## SPORTS

Game of the Week

## MIT Men's Basketball Captures First NEWMAC Championship

By Aaron Sampson  
SPORTS EDITOR

The MIT men's basketball team made history on Sunday, March 1, defeating Springfield College 76-50 to claim the first New England Women's and Men's Athletic Conference (NEWMAC) championship in over a century of MIT basketball. This game capped a stellar season in which the team, led by senior tri-captains James M. "Jimmy" Bartolotta '09, Willard J. "Billy" Johnson '09 and Bradley H. Gampel '09, cultivated a 20-8 record (8-4 NEWMAC) and broke Institute records for single-game points, career points, single-season assists, single-game and single-season steals, and three-point shots. The conference championship earns the Engineers' their first-ever spot in the National Collegiate Athletic Association (NCAA) Division III Tournament.

Sunday's championship game saw the Engineers performing characteristically well. Bartolotta scored 37 points, just six points shy of the Institute record of 43 points he set in November against Curry College. Gampel made three steals, extending his Institute record for single-season steals. Gampel's eight steals against the U.S. Coast

Guard Academy on February 25 marked the single game Institute record. As a team, the Engineers shot 47% for the game and made ten of 25 three-point attempts. Springfield narrowed MIT's lead to only seven points in the second half, but a surge of scoring from Bartolotta and Johnson widened the gap, allowing the Engineers to finish ahead by a comfortable margin.

Johnson recalled his feelings going into the game: "We knew what was at stake ... over a century of history was riding on these next 40 minutes of basketball. But we also knew that we had to treat it as just another game, another opponent, and another chance to just leave everything on the floor."

The Engineers were recognized for their accomplishments in the NEWMAC Postseason Awards. Bartolotta, Gampel, and Johnson all received all-conference selections. Bartolotta, who was recently named ESPN the Magazine Academic All-America of the Year, was also named NEWMAC Player of the Year. In addition, MIT head coach Larry Anderson was named Coach of the Year, an honor he also received after the 2005-2006 season.

Their successes have come despite the fact that MIT has the

smallest men's basketball team in the conference, making every player essential. According to Johnson, "Before each game, we're constantly met with questions from referees, other teams, and fans asking 'Wait, where's the rest of your team?' We chuckle a little bit at that, go out and play, then come back and finish our p-sets."

The team has had a long road to the championship, starting practices soon after the completion of the 2007-2008 season, and continuing to practice together throughout the summer. Even the squad's incoming freshmen members were present for summer practices. In addition to the almost daily workouts and lifting sessions, the players' summer schedules included competition in a Summer League against other college teams as well as former professional or Division I and II college players.

The team was guided throughout by Anderson; Assistant Coaches Kevin Byrne, Paul Grant, and Brian Phillips; Director of Basketball Operations Gunner Hagstrom; and Leadership/Alumni Relations Coach Indran Ratnathicam '98. Looking back on the team's season, Gampel commented, "I've just never been on a team that cares so

Men's Basketball, Page 15

## Men's Swimming and Diving Wins NEWMAC Championship by 245

By James Kramer  
DAPER STAFF

After finishing second in the last two NEWMAC Men's Swimming and Diving Championships, three times proved to be a charm as the Engineers delivered one of the most commanding victories in the history of the meet on Sunday at Wheaton College's Balfour Auditorium. Scoring 1,030 points to outpace the runner-up, U.S. Coast Guard Academy, by nearly 300 points, MIT secured its first NEWMAC title since 2003 and fourth overall. Following the competition, Rastislav Racz '10 was named NEWMAC Swimmer of the Year, while Timothy J. Stumbaugh '12 earned Rookie of the Year honors.

Sophomore Michael J. Dobson '11 sparked the last night of finals with his second individual win of the weekend. Leading from the opening gun, Dobson split 15:53.15 to secure NCAA "B" cuts and NEWMAC First Team All-Conference honors, while finishing 43 seconds ahead of second place. Udit Garg '09 finished third overall, while Zachary C. Cordero '10 and Eric J. Roselli '11 placed seventh and eighth, respectively, as MIT dominated the event.

In the 200 back, Stumbaugh earned another NCAA "B" cut for

the Engineers while posting the second-fastest time in program history with a clip of 1:52.08. Stumbaugh closed second overall in the race with freshmen Ryan N. Terbush '12 and James S. Griffin '12 taking fifth and eighth.

Laurent Charpentier '09, who won the 200 free earlier in the meet, followed up that performance with a convincing win and school record in the 100 free. Charpentier split 45.16 and nearly missed on an NCAA "A" cut, while the ferocious swim set a NEWMAC championship record. MIT authored two other strong performances in the championship final, with Luke R. Cummings '10 notching an NCAA "B" with a fourth-place finish of 45.70, and Peter J. Wellings '09 closing sixth in 46.67. Cummings' time also bested the previous Institute record, while the Engineers tacked on additional points in the event as Jeffrey Y. Zhou '10 and Andrew W. Pierson '12 finished 1-2 in the consolation final.

Another narrow miss on an NCAA "A" cut did little to dampen MIT's commanding performance in the 200 breast. Racz set a NEWMAC championship record and pool record while cruising to a sweep of the breast stroke events in 2:03.77. A pair of freshmen finished third and fourth

Men's Swimming, Page 15

## MIT Receives USTFCCCA Accolades After Record-Breaking Cross Country Campaign

The MIT men's and women's cross country teams were honored by the United States Track and Field and Cross Country Coaches Association (USTFCCCA), as both teams received the USTFCCCA's All-Academic Team award. In addition, a number of student-athletes received individual accolades.

## Sports Shorts

After finishing an astounding 10th overall in its first appearance at the NCAA National Championship, the women's cross country team earned the All-Academic Team award with a combined GPA of 3.44. Jennifer A. Doyle '09, Maria J. Monks '10 and Jacqueline M. Wentz '10 were also named to the USTFCCCA All-Academic team. Wentz, the 2008 NEWMAC Runner of the Year, led the Engineers at the National Championship, finishing 54th overall, the highest finish by an MIT runner at the event in 10 years.

On the men's side, MIT garnered All-Academic Team honors with a 3.44 team GPA, after ending the season with an eighth-place finish at the Division III New England Championship. Hemagiri Arumugam '10, Jeremiah R. "Yermie" Cohen '09 and Jake J. Ruzevick '09 were also named to the All-Academic team individually.

—Greg McKeever, DAPER Staff

## No. 13 Endicott Defeats Men's Volleyball

The MIT men's volleyball team saw its 11-match winning streak come to an end following a 30-22, 30-26, 30-24 loss to nationally-ranked No. 13 Endicott College on Tuesday. Michael Demyttenaere '10 paced the Engineers with 17 kills, a .536 hitting percentage, four aces, and three blocks. T. Scott Pollom '09 notched five blocks as Garrett L. Winther '11 recorded eight kills. Eugene Jang '09 anchored the defense with six digs while Caine L. Jette '10 picked up six assists and two blocks in one game. Timothy R. Lee '11 finished with 22 assists and four digs.

The opening set was a back-and-forth affair as it featured nine ties. With the score knotted at 12, Endicott called a timeout and then picked up back-to-back points following the break. MIT cut its deficit in half (16-15) before the Gulls scored three in a row. The Engineers narrowed the gap to two (22-20), but Endicott notched five straight points to take control of the game.

Endicott raced out to a 17-4 advantage in the second set. The Engineers narrowed the lead to two (23-21) and each side exchanged points until the Gulls posted two in a row to double their margin (29-25). A strike by Demyttenaere extended the set, but a serving miscue ended hopes of a comeback.

In the final set, both squads traded points until midway through the game. With the score knotted at 14, Endicott mounted a 6-1 run. Following its own timeout, MIT registered a 4-2 spurt which narrowed the gap to three (22-19). Both teams alternated scoring, maintaining the small margin before the Gulls secured six of the last nine points to seal the match.

—Mindy Brauer, DAPER Staff

## Women's Tennis Overcomes Bates 7-2

Match Was Attended by the Team's Adopted Teammate from Friends of Jaclyn.

By Jennifer Rees  
TEAM MEMBER

This past Saturday, the MIT women's tennis team defeated Bates College 7-2 in their opening match of the Spring Season. Adding to the excitement was the fact that this was the first match attended by Caroline Hamilton — the adopted teammate from Friends of Jaclyn,



which matches children with brain tumors with college and high school athletic teams. The team's confidence after the first match, Caroline, and fan support gave them a good start.

First up were the doubles matches. The number one team of Leslie A. Hansen '10 and Anastasia Vishnevetsky '12 defeated their opponents with a decisive 8-1 win. They were closely followed in victory by the number three team of Anisa K. McCree '10 and Melissa A. Diskin '11 who defeated their opponents 8-2. This gave MIT a 2-0 lead over Bates.

Next to finish was the exhibition team of Alexandria C. Hall '12 and Jennifer A. Rees '11, who defeated their opponents 8-2 as well. This left the number three team Karina N. Pikhart '09 and Yi Wang '09. The match was close and many points found all four players at the net, but in the end Pikhart and Wang lost 4-8 to Bates. This had MIT in the lead 2-1 going into the singles matches. All the while, Caroline's cheering could be heard by the team, encouraging them to play well.

The singles matches followed. Hansen and Vishnevetsky, one and two respectively, were the first two matches to finish. Vishnevetsky started off her match on the offensive, attacking the net in the first game. She won her match 6-1, 6-2. Hansen's match was tough, but she finished it off with a running crosscourt forehand winner to take the match 6-3, 6-4. This gave MIT a 4-1 lead over Bates.

Wang followed and won the final point in her match with a forehand passing shot down the line. Diskin

was off next, losing a long three-set match 6-2, 0-6, 4-6. The overall score was now MIT 5, Bates 2. McCree played an intense match after Diskin with long rallies. She pulled out the match 6-3, 6-2. Next to finish was Pikhart, who won six straight games in the second set to win 6-3, 6-1. This left MIT with a 7-2 victory.

In the exhibition matches Kerry R. Weinberg '10 lost 7-9, even with her impressive lob winners. Finally,

Jenny C. Dohlman '11 served up a winning exhibition match 8-4. In the closing statements, Assistant Coach Dan Griffin said, "It's good that the team is already playing with confidence this early in the season."

As a result of the win, Head Coach Carol Matsuzaki now holds the record for tennis coach with the most career wins in the history of MIT women's tennis, with a total of 128.

## UPCOMING HOME EVENTS

## Friday, March 6, 2009

Men's Tennis vs. Bates College 4 p.m., J.B. Carr Tennis Bubble

## Saturday, March 7, 2009

Women's Lacrosse vs. Endicott College 11 a.m., Jack Barry Field

Men's Lacrosse vs. University of Massachusetts Dartmouth

Men's Volleyball MIT Invitational 2 p.m., Jack Barry Field

Men's Volleyball MIT Invitational 4:30 p.m., Rockwell Cage

## Sunday, March 8, 2009

Women's Fencing NCAA Northeast Regional 8:30 a.m., duPont Athletic Center

Men's Fencing NCAA Northeast Regional 9 a.m., duPont Athletic Center

Men's Volleyball MIT Invitational 10:30 a.m., Rockwell Cage

## SCOREBOARD

Women's Gymnastics	
Saturday, Feb. 28, 2009	
SUNY Brockport	187.600
MIT	182.150
Men's Volleyball	
Tuesday, March 3, 2009	
Endicott College (18-7)	3
MIT (16-10)	0
Thursday, March 5, 2009	
Newbury College (17-6)	1
MIT (17-10)	3