Car Talk will move to syndication
Show remembered for humor and insight into car problems

By Jaya Narain
STAFF REPORTER

The popular radio show Car Talk hosted by MIT alumni brothers Tom Magliozzi ’58 and Ray Magliozzi ’72 will stop new episodes in September, reruns will continue in syndication.

Tom’s desire to retire from the show. While Tom was not available for comment, Ray explained, “That’s the way our household was. Talking to callers on the air was basically like sitting around the kitchen table when we had invited a guest over, you know. It was always pretty lovely. It was always fun.”

The Magliozzi’s tried to incorporate humor into the show and keep the atmosphere light and accessible. “The show started off pretty seriously,” said Ray. “When we realized that we were basically known for their humorous banter and insightful advice for callers’ car problems. Car Talk receives thousands of calls from listeners with car issues per week. The calls are pre-screened, and selected callers are then contacted for taping. All participants for a single show are placed on hold for the duration of taping, allowing callers that appear later in the show to listen and refer to earlier calls. Recording usually occurs the Wednesday before a taping, allowing callers that appear on the show to submit questions to the hosts on the show and refer to earlier calls.

Car Talk is a half-hour program that focuses on car issues and concerns. The show is hosted by Tom and Ray Magliozzi, who are known for their humorous banter and insightful advice for callers’ car problems. Car Talk receives thousands of calls from listeners with car issues per week. The calls are pre-screened, and selected callers are then contacted for taping. All participants for a single show are placed on hold for the duration of taping, allowing callers that appear later in the show to listen and refer to earlier calls. Recording usually occurs the Wednesday before a taping, allowing callers that appear on the show to submit questions to the hosts on the show and refer to earlier calls.

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For legion of fans, Apple retail jobs prove a letdown

By Larry Altman and Doug Morino

LOS ANGELES — A teacher under investigation for lewd conduct with a former student led police on a dramatic chase Tuesday afternoon to a remote hilltop Estates, where he drove an off-road vehicle, went airborne and slammed into the side of an office building.

Kip Richard Arnold, 51, a physical education teacher at Southeast Middle School in South Gate, was hospitalized after firefighters freed him from the wreckage of his Ford F-150 truck.

Police had put Arnold under surveillance a day earlier as part of an investigation into alleged lewd conduct with a former student, Bell police Lt. Ty Henshaw said.

Detectives tried to stop him near his Lakewood home Tuesday, but he drove away as they approached him.

“He said he was suicidal,” Henshaw said. “He rolled up his windows and took off.”

Police gave chase.

In Paraguay, democracy appears doubtful; trial for President Lugo

REST OF WEEK IN BOSTON

By Ethan Solomon

Extended Forecast

Today: Mostly sunny. Wind from the north at 5 to 10 mph. High 75°F. 

TODAY: Mostly clear. Low 62°F.

TONIGHT: Sunny, Calm wind moving northeast to 10 mph in the morning, High 89°F. 

TUESDAY: Sunny. High 89°F.

FORECAST

Situation for Noon Eastern time, Wednesday, July 11, 2012
Little debate or doubt about Sandusky’s trial, juror notes

By Joe Drape and Natale Taylor

BELLEFONTE, Pa. — Joshua Harper, a retired teacher at Horace Mann School, said he would not shed any tears over what happened to Jerry Sandusky, the former Penn State assistant coach, even though he worked for him and interacted with the boys who were molested.

He did not want to dwell on the case, he said, or express his feelings online and a number of victims to testify, along with corrections officials, independent experts and others with insight into the system, which houses about 3,500 inmates and has been plagued by escapes, gaps in security and violent incidents.

"Clearly, there is something going wrong," said state Sen. Rob- ert Reilly, a Republican, the chairman of the Senate's Corrections Committee. "The Legislature has an obligation to determine what is happening and to determine the appropriate course of action."
Dear students,

Earlier this summer, the Undergraduate Association (UA) and Graduate Student Council (GSC) collaborated with President Rafael Reif to form the Presidential Transition Advisory Cabinet (PTAC). This goal of its report by hosting monthly forums to allow students to hear any ideas or opinions that you have to offer. Please feel free to contact PTAC at ptac@mit.edu for comments, questions, and opinions. This is an exciting time for MIT, and we want you to be as connected as possible.

Regards,
Michael Walsh, UA & GSC Nominations Chair

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GUEST COLUMN

Presidential Transition Advisory Cabinet Formed

OPINION POLICY

Editorials

Editorials are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chair Alysha Schelck, Editor in Chief Jessica J. Pourian, Managing Editor Connor Kinsler, and Executive Editor Ethan A. Solomon.

Dissent is the signed opinions of editorial board members choosing to publish their disagreement with the editorial. Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@tech.mit.edu. Hard copy submissions should be addressed to The Tech, P.O. Box 397629, Cambridge, Mass. 02398-7629, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. The Tech reserves the right to edit or condense letters, shorter letters will be given higher priority. Once submitted, all letters become property of the UA. The Tech does not accept reprints, requests for release, requests for coverage, or information about errors that call for correction to news@mit.edu. Letters to the editor should be sent to letters@tech.mit.edu.

TO REACH US

The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@tech.mit.edu, and it will be kept up to date displaying the schedule for meetings, and the topics for discussion. We would love to hear any ideas or opinions that you have to offer. Please feel free to contact PTAC at ptac@mit.edu for comments, questions, and opinions. This is an exciting time for MIT, and we want you to be as connected as possible.

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The article about the Inman Square shootings in the June 13 2012 issue of The Tech is, correctly noted that the shooting happened on “Sunday night,” the shooting happened on the previous Sunday, June 3.
Olympic swimmers chosen
Stay tuned as heated battles from trials intensify

By Sarah Weir
SPORTS EDITOR

We’re currently midway into July. That means it is hot and humid in Boston, there are less than two months before school begins, and the London Olympics are only a few weeks away. The USA Olympic team is currently being assembled for the Games which begin on July 27th. From June 25th to July 2nd, the Olympic team trials for swimming were held in Omaha, Nebraska. The big story from the 2008 Beijing Olympic Games was Michael Phelps’ domination of the pool. He earned eight gold medals to become the most decorated Olympic athlete in history. He will be competing in seven events (four of them individual) at this year’s Olympics. However, there are other superstars this year, including Missy Franklin in freestyle and backstroke and Rebecca Soni in women’s breaststroke. Here are some things to watch out for in the coming Olympics:

Lochte has been catching up to Phelps and consistently dominating

Michael Phelps vs. Ryan Lochte

One of the highlights of the Olympic Trials was watching Michael Phelps and Ryan Lochte battle it out in different events. For the past few years, Lochte has been catching up to Phelps and consistently dominating. At the Trials, he upset Phelps in the 400 meter individual medley for which Phelps currently holds the American record. However, Phelps edged out Lochte by a few milliseconds in the 200 meter individual medley. Needless to say, this year’s Olympics will likely be an interesting cat-and-mouse display as both swimmers try for gold.

Missy Franklin just turned 17. She will enter her senior year of high school in the fall as the first woman to qualify for 7 events. Her first event at the Trials was the 100 meter backstroke, where she earned first place and broke the American record. She then moved on to qualify in the 100 meter freestyle, the 200 meter freestyle, and the 200 meter backstroke (where she also handily beat the competition). Will Franklin have a story similar to Michael Phelps’ dominance at the 2008 Olympics? She has the world’s fastest time in the 200 meter backstroke this year, and her obvious excitement will likely lead her to the podium in multiple events.

Allison Schmitt and Jessica Hardy

Schmitt will be competing individually in the 200 meter freestyle and the 400 meter freestyle. At Trials, she won the 400 free, and beat Missy Franklin in the 200 free by two seconds. She is known for her upbeat personality on the deck, but she certainly transforms once she enters the water. On the other side is Jessica Hardy, who dominated the sprinting events in Omaha. Hardy edged out Missy Franklin to win the 100 meter freestyle and also ruled in the 50 meter freestyle. These two girls have a lot of competition facing them at the Olympics, but there is certainly a chance that they will medal.

She will enter her senior year of high school in the fall as the first woman to qualify for 7 events

Cullen Jones

Jessica Hardy’s mirror on the men’s side is Cullen Jones, who also qualified in the 50 meter and 100 meter freestyle events. He was part of the 2008 Olympic 4 x 100 meter freestyle relay that set a world record and won a gold medal. However, this will be his first Olympics competing in two individual events. He currently holds the American record for the 50 free, which he set in 2008. The times are so close for competitors in Olympic sprinting events that it is entirely possible he will take home a medal, or get unlucky and end up at the bottom.

The Olympic indoor swimming competition begins on July 28th and culminates on August 4th.
Pixar’s newest heroine is no damsel in distress
...but is Brave’s Scottish princess as epic as the previews lead you to believe?

MOVIE REVIEW

By Jessica J. Poirian
arts editor

Meet Merida, a sassy, fiery-headed young princess, and the first female star of a Pixar film in the 17 years the studio has been making movies.

Since she is Pixi’s first female lead, I expected a lot from Merida. Even though the film is set in a Medieval Scottish castle, I didn’t think Merida would end up in the typical Disney princess damsel-in-distress role — she didn’t. I was curious how the character would walk the line between being an empowering female figure that girls could look up to in 2012 and remaining a princess in the 10th century.

Indeed, this dilemma becomes the central conflict of the story. Merida’s only life is to live in the countryside and practice her archery. She brushes off her mother’s attempts to groom her into a perfect lady, instead preferring to create mischief with her three younger brothers. But when her mother decides it’s time for Merida to wed a son from a rival clan, Merida panics and tries to escape her “fate.”

In the next track, the haunting, stripped-down “Slow it Down” refers to her powerful contralto. The album’s rip-roaring single “Listen to my heart as it beats for you and it’s telling you the things that I never could” is nothing less than a refreshingly honest declaration of love.

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It’s a classic setup to which most people can relate: The child wants to be free and control their own fate, while the parent is rooted in tradition and wants to keep the child in his or her proper place. By framing the conflict between Merida and her mother as the central issue of the movie, Brave gives itself a premise to which most viewers can connect. However, by grounding itself in a 21st (and 20th) century problem, Brave loses some of its grandeur which could have achieved with a story set in the time of knights and witches.

The film is more a family drama than the epic adventure the trailer seemed to promise.

Just a few minutes into the movie, it becomes clear that the film is more a coming of age and family drama than the epic adventure the trailer seemed to promise.

AMERICAN HERITAGE

Sunny summer soundtrack
Amy Macdonald returns with Life in a Beautiful Light

By Kathryn Dere
arts editor

Scottish singer-songwriter Amy Macdonald entered the US music scene five years ago with This Is the Life, but we haven’t seen (or heard) much of her since. It’s been a long wait for US-based fans — her second album, A Curious Thing (2010), is not widely available on this side of the Atlantic — but the recently released Life in a Beautiful Light makes for the perfect summer soundtrack.

Life in a Beautiful Light still possesses the same kind of melodic optimism that made This Is the Life such a success. The “long lingering glances, fairytale romances” of Macdonald’s first album and the unashamed criticism of celebrity culture of her second, however, have mostly disappeared. Superficially, the sound of Life in a Beautiful Light is very much the same as her previous albums: Macdonald still pens a catchy refrain, she still records with the same live band. The subjects of the songs, however, have changed. Macdonald comes from a soccer family, and the song “Fighting in the Backyard” serves as a witch’s answering machine, and when Merida has an outburst of adolescent anger she goes storming off on a giant stallion — much like an upset teenager zooming away in the family car.

Visually, Brave is beautiful. Pixar redid their animation engine for the movie, and the effort shows. The landscapes in the movie are some of the most stunning in any animated film to date, and the opening scene where Merida rides through the palace is certainly memorable. The movie is, however, disappointingly missing the adventure the trailer seemed to promise.

The movie is certainly cute, but it won’t pull on your heartstrings in the manner of Up and it isn’t as funny as Monsters, Inc. Though it’s no Toy Story 3, the ending of Brave is still moving, and overall the film is worth a watch.

Merida may not be the Hun-fighting powerhouse that Mulan is, but she is a stronger female than most Disney princesses since her father is willing to take her fate into her own hands. It’s a good lesson and a refreshing break from the often stale princess-in-a-castle type stories.

ALBUM REVIEW

Sunny summer soundtrack
Amy Macdonald returns with Life in a Beautiful Light

By Kathryn Dere
arts editor

Scottish singer-songwriter Amy Macdonald entered the US music scene five years ago with This Is the Life, but we haven’t seen (or heard) much of her since. It’s been a long wait for US-based fans — her second album, A Curious Thing (2010), is not widely available on this side of the Atlantic — but the recently released Life in a Beautiful Light makes for the perfect summer soundtrack.

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Macdonald firmly asserts her identity as an indie-tinged, pop-rock brand of music with the opening track “4th of July” where hand-clapping beats and trumpet interludes create a lively accompaniment to her powerful contralto. The album’s rip-roaring single “Listen to my heart as it beats for you and it’s telling you the things that I never could” is nothing less than a refreshingly honest declaration of love.

Even amid the sometimes-frenzied strings and electric guitar, Macdonald reminds us that all above, she is a storyteller. Lyrically, the stories may only ever be mentioned in passing, but even the slightest suggestion is sufficient. The nostalgia-tinted “Days of Being Young and Talia” move along at equally merry paces, bringing back familiar memories of “Barrowland Ballroom” and “Mr. Rock & Roll.”

It’s a toe-tapping, dashboard-drumming sort of album, and its optimism is infectious.

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Just a few minutes into the movie, it becomes clear that the film is more a coming of age and family drama than the epic adventure the trailer seemed to promise.

The album only really falters during “The Furthest Star” and “The Game,” which overuse tired references to the life that Macdonald so vehemently rejects.

Life in a Beautiful Light is nothing groundbreaking, but its sunny tracks come as a relief in an industry so obsessed with reinvention. It’s a toe-tapping, dashboard-drumming sort of album — something you listen to when you’re cruising down the highway with the windows down — and its optimism is infectious. Listening to it, you can’t help but believe that life really is painted in a beautiful light.
When the human-machine boundary began to blur
A dissection of the birth and development of cybernetics in the first half of the 20th century

By Roberto Perez-Franco

MIT Professor David A. Mindell PhD ’96 feels equally passionate about engineering and the history of technology. He wanted to share with his fellow Massachusetts Institute of Technology grad students the life and times of a bright researcher for obscure reasons, either to stage a conclave of a bright researcher for obscure reasons, or to the rejection of a project that later evolved into the famous ENIAC machine, are described objectively, giving the reader information to assess how they might have affected the later turn of events. Writing about “control systems,” Mindell discusses the early ancestors of what we call today “computers,” a term that Mindell argues has been misused over time when talking about the history of calculating and control machines. Given the importance of computers in our lives, taking a look at the past that enabled them with the advantage of hindsight is a didactic experience. From Mindell’s account, it seems clear that concrete, practical needs, and not purely theoretical desires, were behind most of the inventions that drove the field ahead. These needs led to the development of equipment, which funded the companies in turn advanced the field. However, as machines, they grew in complexity. They are portrayed, at least from Mindell’s perspective, as a sort of pure self-expression of the engineer’s ideas, and an extension of the human user himself. They are aids that not only make human work more efficient, but also make it possible at all.

The development of control systems from the early 1910s to the late 1940s turns out to be a surprisingly engaging topic. Episodes in which egotist attitudes, personal conflicts or short-sighted decisions of the contributors such as the decision-making of a bright researcher for obscure reasons, or the rejection of a project that later became a giant are portrayed, at least from Mindell’s perspective, as a sort of pure self-expression of the engineer’s ideas, and an extension of the human user himself. They are aids that not only make human work more efficient, but also make it possible at all.

It is enlightening to realize how, in their quest to develop new technology, each organization was limited in some way by the knowledge and technology they already had mastered. In some sort of real-life version of the metaphor of the hammer wanting to see everything around itself as a nail, each one of these pioneer companies very often tried to approach the problems they were facing using ideas they already had at hand. Here, the modern-day practitioner of system sciences can find a valuable lesson that sounds cliché but is often overlooked: Finding answers to new problems almost always requires new ways of thinking.

The careful reader will appreciate the balance of Mindell’s analysis, which accepts the huge influence geniuses such as Wiener had on the evolution of cybernetics, while clarifying that in spite of his egocentric claims, Wiener was not the first to conceive of the idea of human and machine interaction at this level. It might be hard to accept Mindell’s repeated insinuations that humans have been becoming more intertwined with machines since the first half of the past century, a stance conveyed in phrases such as those describing the “blurring of the human-machine boundary,” and epitomized in some of Alfred Crimi’s majestic transparent drawings presented in the book. But an honest mediation may reveal that, to some degree, this claim of Mindell is in line with reality. It would be an exaggeration to claim that every page of this book reads easily. But and it’s true, as an academic work, it doesn’t have to. Not just anybody could have written this dense, fact-packed, intense book, because it has the traits of both a history study and an engineering systems treatise. In the endless ocean of engineering professionals that populate the modern world, system engineers — those who struggle to understand the dynamics of large, complex engineering systems — are still a very uncommon breed. Finding someone who has both a clear vision of this field and, more importantly, an honest desire to invest several years of his productive life to surgically dissect the evolution of human understanding of control systems is a sort of miracle. Such an rare combination is indeed what it took to tackle the gigantic task of chronicling the advent of cybernetics, from how it evolved in the environment of the inter-war decades and during the Second World War itself, to how it became a ubiquitous aspect of commercial and civilian life.

Facing the problem of the unwatchable romcom. Their character’s history they’re just in a stupid movie about a stuffed animal. Like the movie itself, character relationships seem to be built on some kind of wobbly house of cards — I got the sense MacFarlane just wanted to get in another punchline, not craft an interesting story or make me actually care about the people on the screen. Leaving the movie, I realized I could have laughed just as much by panning up three episodes of Family Guy on Hulu. Joel McHale deserves a shout-out for his supporting role as Rex, Lori’s creepy manager who hopes to scoop her up if things go south with John. The film might also please Boston fans, since most of the big Brantston landmarks make an appearance (Sorry, no MIT cameo). Drawbacks aside, don’t forget: Ted will make you laugh, and if that’s worth $12 to you, by all means, see the film. Just don’t expect anything above and beyond what MacFarlane has been doing on TV for years.

Ted
Directed by Seth MacFarlane
Starring Mark Wahlberg, Mila Kunis, Seth MacFarlane, and Joel McHale
Rated R
Now Playing
Memorable Fourth of July show!

By Stan Gill

Earth, wind, rain, and fire were on the menu for this July 4th. I gathered my blanket and camera, donned my backpack, and was ready to sit on the esplanade through the weather to see the fireworks spectacular that so many people descend upon Boston to get a glimpse of. As someone who spent their life watching fireworks on TV, I was more than excited to see the Boston Pops Fireworks spectacular on July 4th.

The day before the fireworks, July 3rd, was the dress rehearsal concert. They ran through the entire program that would be performed on July 4th, including the cannon shots, but not including the fireworks. I was fortunate enough to get a seat close to the stage. The Boston Pops played along with every performer that came to the stage, including the Dropkick Murphys, Kaye Tuckerman from Mamma Mia!, the US Navy Band Sea Chanters, and Jennifer Hudson. The way the orchestra blended with the sounds of each performer was incredible - there isn't an adequate word that can describe how well the timbres of each individual section in the orchestra melded with each soloist. I could feel the music, and it’s not because of the terrific speakers that pushed the sound out of the hatch shell and broadcast the concert all around the river. Hearing the orchestra perform the 1812 overture and feeling the rock of the cannons firing off in time with the high points of the piece is a memory that will remain with my days in Boston after I graduate.

The dress rehearsal, while incredible, was promised to be made even more awesome by the fireworks set to happen the next day. Some of my friends had staked out a nice spot on the esplanade right in front of the fireworks barge. Despite rain in the forecast, until around 9pm, everything was going smoothly. Then, amidst storm clouds spewing thunder and lightning, a voice came in over the speakers and told all the people outside to seek temporary shelter as the storm would pass through. A few minutes later, several service members, donned in traditional army camouflage, came by attempting to evacuate everyone from the esplanade. Being as ill-suited for rain as we were, most of our party decided to head back to the Cambridge side, resolved to watch the show from Walker Memorial where we would have quick access to shelter should the rain start up and render conditions inhospitable. We got about halfway across the Harvard bridge when we realized the music had come back on, the concert was continuing!

Not wanting to go far away or put ourselves in a position to get engulfed by the inevitable crowd of people that would be exiting the river after the show, we decided to stay right there and watch from the bridge. Just as the rain started to fall from the sky, the first firework went up. Through the downpour, mist, and wind, the fireworks lit up the sky and overpowered the sound of thunder. Fortunately, one of my friends had brought an umbrella, so I didn’t get too soaked, but even if I did, it was worth it.

The show on the 4th, despite being delayed by the weather, was an experience I will never forget. I can understand why people travel from all around to see the show, seeing it in person and feeling the energy of the fireworks and the crowds of people around you is something you simply can’t get from just watching the show on TV.

1. The Green Building lights up in sync with the music before the July 4th fireworks.
2. The U.S. Navy Sea Chanters open the Boston Pops July 3rd Independence Day Concert at the Hatch Shell singing the Star-Spangled Banner.
3. The U.S. Navy Sea Chanters sing America the Beautiful.
4. Firing tubes that have been loaded with fireworks shells stand on the fireworks barge on Sunday before Wednesday’s fireworks show.
5. The Dropkick Murphys perform I’m Shipping Up to Boston during the concert.
6. Jennifer Hudson performs “Feeling Good” for a large crowd at the concert.
Elusive “God Particle” closer than ever

CERN experts present Higgs boson findings at ICHEP in July

The mediators of the weak nuclear force responsible for radioactive decay of subatomic particles — are 80 and 94 times heavier than protons, respectively. The consequence of this prediction is a Higgs field that permeates all space and interacts with some elementary particles, causing them to appear massive, while particles that don’t interact with the field remain massless.

The Higgs boson decays so quickly, however, that the detectors cannot possibly observe it. The decay products can be observed, though — the mass at the center of the event can be reconstructed. Many standard processes produce similar decay products, so there is a great deal of “background.”

But if the Higgs boson exists, there should be an excess of events with its mass. When plotting histograms of events per mass, this excess shows up as a bump in data whose statistical significance can be measured. There are several types of decay processes — i.e. channels — that the Higgs boson undergoes useless for this type of study, and different teams work on producing the extensive analyses for each decay. In December of 2011, CERN announced a small signal excess at the mass of 125 gigaelectronvolts (GeV), but definitive conclusions couldn’t be drawn until the signal significance reached the level of five sigma (five standard deviations above background).

I arrived at CERN in early June. Following the December announcement, CERN decided to intensify the data collection for the Higgs search, conducting dedicated runs of the LHC between April and June. This step was taken in the hopes that the analyses would produce enough data to present significant results at the International Conference of High Energy Physics (ICHEP) in July. To prevent any bias in designing the complex analysis algorithms, the numerical region of interest for the Higgs mass was kept hidden (“blinded”) in the new data. With the analysis architecture completed, it was time to “unblind” the region of interest, all just a week after I arrived.

On a Friday afternoon in June, I joined hundreds of CMS physicists gathered in a large room at CERN for the unblinding meeting. If the signal “bump” reappeared in the new data, it would almost certainly be due to the proposed explanation, while its absence would strongly suggest that the previous finding was a fluke and possibly exclude the Higgs boson entirely. The information on a few Pow- erPoint slides would essentially tell us if we were heading toward a confirmation or rejection of a major theory in particle physics. MIT graduate student Weiping Yang C delivered the talk for the analysis of the decay channel of Higgs to two photons. She announced that the 2011 and 2012 data revealed a four sigma signal excess at 125 GeV for this single channel. This elicited a great deal of excitement from the audience. Other analysis channels reported smaller excesses — most notably three sigma from the channel of Higgs to two Z particles to four leptons — but it was clear that the two-photon channel would drive the result, and a combination with other channels would produce an excess close to or exceeding five sigma. Despite the excitement, the results had to stay within CMS.

For good!

I briefly met Peter Higgs, and watched normally laid-back scientists get swarmed by the media. The excitement following the announcement was extensive and somewhat amusing. I briefly met Peter Higgs, and watched normally laid-back scientists get swarmed by the media. In the end, I was simply grateful to have witnessed some of the biggest events in the history of physics. Perhaps I am a bit spoiled to only see it at the most exciting time, but this was important meetings almost every day, and the schedule became even tighter when CERN announced that there would be a semiannual update on the Higgs search just before the final data was added. The results had to stay within CMS.

The next few weeks were a flurry of activity. These results had to be presented and approved by publication committees. There were important meetings almost every day, and the schedule became even tighter when CERN announced that there would be a seminar with an update on the Higgs search just one day before ICHEP. I was impressed how intensely all the physicists scrutinized the results, even discussing details of single plots or signatures for extended periods of time. The analyses then had to be “topped up” with the new data collected since the unblinding, and these results also had to be approved. The combination of the results from each channel was presented, producing a 4.7 sigma excess before the final data was added. The scale and hype of the announcement seminar were on a different level entirely. I began waiting outside the door of the auditorium at 2 a.m. for the 9 a.m. meeting and there were already fifty people in front of me. By 7:30 a.m., over one thousand people had...
New 2-A curriculum to be introduced in the fall of Class of 2015 may choose new or old options, later classes will go into new curriculum

By Edward E. Burnell

This coming fall, students in Course 2-A will have the introduction of a new 2-A curriculum, the modified, second-year engineering degree, and will encounter a traditional Course 2 track. Inconspicuous to students is that they will have their choice between the current 2-A curriculum and this new one, a decision that will only be made by the class of 2016 on will go into the new curriculum. The Tech’s previous coverage of the announcement of the new program in the June 27, 2012 Tech article “N’72-program.html Edward E. Burnell ’12, a Course 2 senior, sat down with Associate Professor of Mechanical Engineering and Course 2-A program coordinator Annette Hoso, to ask about the proposed changes.

Edward Burnell: Why is there a new 2-A curriculum? Annette Hoso: When 2-A was created in 1934, there were only a few students in the program. With only six in six students per year, we didn’t have the resources to offer a separate degree program. As the number of the 2-A students, so the old 2-A core was by necessity tailored to existing Course 2-A students. With the number of almost the same size as Course 2, we had the unique opportunity to create a unique core to serve the needs of our growing 2-A population. In design, the 2-A curriculum is a core jewel in the crown of 2-A’s curriculum. So one of our primary goals in designing the new core was to create a program that will enable students to exist in any concentration they choose. Did you pick the new curriculum accredited? AH: The new 2-A is accredited. Our goal was to ensure that accreditation is important to the students, as soon as the program was accredited, in 2002, enrollment took off. And not only that, we saw to see more and more students. According to Angela E. Kilby G, a Graduate student in the engineering department, “There is a cohort of students coming in this fall who are very knowledgeable about Core 2-A. We feel that our students are taking the easy way out. The most popular track we’ve seen that, for the 2.02a or b, the course is through MIT. I went down and walk with the 20 students who take the class. We have small, small minority who are doing it because they’re in trouble with their academic advisers. There are always going to be some, but it’s a small percentage.”

EB: How do employers view the 2-A degree? AH: We’ve polled our alumni and we have not seen any difference in opportunities or ability between 2-A and Course 2.

EB: How have you been welcomed into your new curriculum, and do you think that curriculum is very sudden, but surely something does change from this other suddenly. AH: “(laughs) It’s pretty sudden. The last curriculum reform we did took years, with this one, we started thinking about it seriously last summer, which is an extremely short time to roll this out. But the reason we’ve taken so long, we’ve really looked at the program, and recognized that the growth of 2-A, these are people who want to take both Course 2 and 6. These are people who work in the tech 2-C 2-A and Course 6, and it’s just the math, we need to lay out the entire year. I think that’s the only way we can make some the things we could be doing better. I think that’s the one thing to bear in mind is that each 2-A curriculum is very important.

The six unit classes give you the opportunity to frontload the semester, which I think is a good thing.

Interviews for candidates to begin applying for 2-A

According to a statement released by the Division of Student Life last week, landing the new 2-A curriculum for the fall of Class of 2015 may choose new or old options, later classes will go into new curriculum

Interviews for candidates to begin applying for 2-A

The Tech is looking for bloggers.

Landlines set to be removed from dorm rooms

Wednesday, July 11, 2012

The Tech 11

The Tech is looking for bloggers.

E-mail join@tech.mit.edu

According to a statement released by the Division of Student Life last week, landing the new 2-A curriculum for the fall of Class of 2015 may choose new or old options, later classes will go into new curriculum.
CarTalk bros retire from radio
Magliozzi brothers finish 35 years of radio broadcasting

Car Talk, from Page 1

Ray said that he and Tom ob-
tained most of their mechanical
knowledge through work in their
auto-repair shop, Good News Ga-
rage. Working hands-on with the
customers’ automobiles allowed
them to recognize what types of
symptoms accompany what prob-
lems and apply this knowledge
in real problems. By using data
they obtain from their show fea-
ture “Stump the Chumps,” in which
previous callers are invited back to
discuss how useful the advice given
was, Ray and Tom correctly remote-
diagnose callers’ automobile problems 80 percent of the time.

"We had been running the ga-
rage for a few years, and Tommy
was between wives," said Ray. "He
wanted to meet young ladies, and
he had this brainstorm that we
should teach these adult educa-
tion courses and gear them towards
women. I guess someone from
WRIR must have taken one of our
courses and felt that we were fairly
skilled drivers and called us to the
show.

Leading up to Car Talk
Ray began his time at MIT in the
department of mechanical engi-
neering. But, after a gap year after
his sophomore year with Vista, a
domestic volunteer corps, he deci-
ded that he wanted to pursue teach-
ing and graduated with a degree in
Course 21B (now 21S, Humanities
& Science) in 1972. Tom graduated
from MIT with a bachelor’s degree
in Course 10 (Chemical Engineer-
ing) and Course 14 (Economics) in
1958.

The Magliozzis’ foray into radio
was a result of a series of the broth-
ers’ ventures. After graduation, Ray
relocated to Vermont to teach ju-
ior high school. While there, he
received an invitation from Tom
to return to the Boston area to open
a do-it-yourself garage. The two
eventually moved away from the
do-it-yourself concept towards a
traditional mechanic-run garage.

Also began to pursue other
endeavors.

Ray said that while Tom is per-
nant, Ray knew that no matter what,
no-
body owned us. And I think that’s
important.

Ray and Tom’s radio show was
the subject of Car Talk: The Musical,
a show produced by Suffolk Uni-
versity; it is playing at the Central
Square Theatre through August 12.
The brothers also inspired an ani-
matated Car Talk spin-off, Click and
Clack’s As the Wrench Turns, which
aired on PBS in 2008.

Both of the Magliozzi brothers
plan to continue their work at the
Good News Garage in Cambridge,
maintaining the http://cartalk.com
website, and writing their newspa-
der column.

Ray Magliozzi ’72 talks about the creation of CarTalk, its most mem-
orable moments, and why he and his brother decided to discontinue
the show.

Royal Bengal
Boston’s only authentic Bengali Cuisine restaurant
Open Daily Except Monday
11:30 am - 11:30 pm
Lunch Buffet $5.75
Reasonably Priced Dinners
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Take-out, platters, and catering available.
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Annual MIT/WHOI Joint Program
Summer Picnic & Beach Day
Grab your sunscreen, snorkel, and frisbee, & visit Cape Cod!

- Saturday July 28; noon-4pm
- Play kickball, relax, & swim in the ocean
- BBQ & cold drinks
- Comfortable charter bus transportation between campuses
- $10/person; adMIT ONE sales open on July 13; info & tickets at:
  http://mituniversitytickets.com/user_pages/event_listings.asp
- Sponsored by MIT GSC LEF & MEF, GSC
  Activities Committee, MIT Biology
  Department, EGSAC, EECS, & GAME

JOINT PROGRAM IN OCEANOGRAPHY/APPLIED OCEAN SCIENCE & ENGINEERING

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The Magliozzi brothers finish 35 years of radio broadcasting
Chris Kaiser becomes provost

Chris A. Kaiser PhD '87, former head of the department of biology, assumed the role of provost on July 2. He succeeds L. Rafael Reif, who became president on July 1.

The provost is the Institute's senior academic administrator and budget officer and is in charge of recruiting faculty as well as MIT's educational programs.

Kaiser, 55, received his PhD in biology from MIT in 1987. He became faculty in 1998, and was the chair of the department of biology from 2004 until this March. Kaiser was nominated to head the National Institute of General Medical Sciences (NIGMS) last October, but withdrew this April, citing personal reasons.

The provost studies protein folding and intracellular transport, using yeast as a model organism. Kaiser taught 7.03 (Genetics) from 1992 to 2011, and was named a Mac/Vicer Fellow in 1999 for his work with the class.

"I am delighted that Chris Kaiser has agreed to join the Institute's leadership team. His scientific vision, collegiality, effective leadership and commitment to cultivating a diverse student body made him highly successful as head of our Department of Biology," President Reif said in a statement to the MIT News Office. "I have no doubt that he will thrive in this position."

—Jessica J. Pourian

Zoning changes for Kendall begin to gel

At tonight’s meeting of the Cambridge Planning Board, the City’s Community Development department presented a draft recommendation of planned zoning changes for Kendall Square.


The meeting was one of several steps along the process to finalize zoning language. Farooq presented by Iram Farooq, a senior planner in Community Development, the early draft of the zoning language to the board, while encouraging discussion and taking questions from board members.

Board chairman Hugh Russell said they provided oral comments, generated by MIT’s Kendall-to-Central study, along with those of city staff and community. Their own planning work. The meeting consisted of a two-and-a-half hour discussion presented by Iram Farooq, a senior planner in Community Development. Farooq presented the board, while encouraging discussion and taking questions from board members.

Board chairman Hugh Russell submitted written comments on the current proposal. An issue he identified is that the proposal that buildings meet the LEED Gold standard for sustainability was likely in opposition to having middle-income rental pricing. Russell noted that only ten residential buildings in Massachusetts currently meet the LEED Gold standard, and suggested $3,000–4,000 rental prices would be required to support that standard.

Other board members provided oral comments, generally supportive of the process but seeking additional information and clarification on many points.

Many board members commented on the differences between the city’s proposal and a study funded by the East Cambridge Planning Team, a neighborhood group. The study was produced by CBT Architects in March after members of the ECPT expressed concern about the direction of Kendall Square advisory committee meetings.

Board members said they look forward to how city staff will integrate the CBT study with their own planning work.

—John A. Hawkins

The Institute held an Ice Cream Social on July 2 to celebrate L. Rafael Reif and Chris A. Kaiser’s PhD ’87 first days as president and provost, respectively. Hundreds of members of the community lined up along the Infinite Corridor to get ice cream and to chat with Reif and Kaiser.
UPPERCUT by Steven Sullivan

Sudoku
Solution, page 13

Techdoku
Solution, page 13

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

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.
Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun Fun

Wednesday, July 11, 2012

Sales Log by Bruce Venzke

Solution, page 13

Across
1. Camper’s rental
5. Nautical direction
10. Peak near Tokyo
14. Big do
15. City on the Red River
16. Exploitative person
17. Sales log, part 1
20. Farm machine
21. Mostly Ghostly author
22. Burgundy buddy
23. Home of Morning Edition
26. Car wash item
27. Morn’s counterpart
30. Sales log, part 2
34. Oxford alternative
35. Princeton mascot
36. Decree
39. Echolocation device
42. Minus
43. Mark of excellence
45. Criticise
46. Sales log, part 3
47. Bowl highlights
50. Summer cruise port
51. Some sultan subjects
52. Hostile encounter

Down
1. Indeed
5. Mia in Pulp Fiction
6. Italian scooter
9. Charged
10. “Rubber Duckie” singer
18. Heavy bar
24. USMC recruits
25. City at the foot of the Sierra Nevada
26. Surf sound
27. Respected figure
28. 2-band hand holder
29. Gets off the track
31. Enjoy thoroughly
32. Munich merci
33. German romantic poet
34. Munich merce
36. Munich merci
37. Vaskman successor
38. Charity
39. Show Boat captain
40. Old school method
41. Powersaving mode
42. Charity
43. Old school method
44. Show Boat captain
45. Vaskman successor
46. Munich merci
47. Munich merci
48. Munich merci
49. Munich merci
50. Munich merci
51. Munich merci
52. Munich merci

55. Indeed
56. Mia in Pulp Fiction
57. Italian scooter
58. Charged
59. Sales log, part 4
60. Surf sound
61. Respected figure
62. Less than forthright
63. Rotary device
64. Mile High Center architect
65. Portray
66. Surf sound
51. Some sultan subjects
52. Hostile encounter

Looking around, you see an onramp labelled “information superhighway!” This metaphor is incredibly dated and also terrible.

You want to point this out to someone, but the only person nearby is some kid surfing an early-90s keyboard through the sky. He’s wearing neon clothes and carrying a two-button mouse with a cord attached to it.

I wake up into real life again!
I throw my computer in the garbage and light the garbage on fire.
I decide to die!

Then I roll over to my laptop and check my email.
There’s a message: “Thanks for visiting us inside your computer!!”.

The toxic plastics and chemicals turn into a gas and go inside your lungs... where a tiny kid on a tiny keyboard messes with your alveoli!!

I join you; this adventure was a bad idea from the start
I was staring at the wall of energy bars at LaVerdes, looking for a quick snack between work and exercising. Bright and colorful, they tempted the eye with bold statements like “10 grams of protein!” and “Chocolate-Caramel flavoring.” Yet even the “healthy” bars often contained more sugar than protein, and I wanted something more… meaty. Unfortunately, I don’t have the technology to produce a slab of pure dried animal flesh, so I did the next best thing: I made a batch of savory granola.

**Savory Granola**

2 cups old-fashioned oats  
3.25 ounces turkey jerky  
1/2 cup nuts, chopped  
2 eggs (egg whites)  
1/2 teaspoon onion powder  
1/2 teaspoon garlic powder  
1/8 teaspoon paprika  
1/4 teaspoon cayenne powder (optional)  
1 tablespoon soy sauce (optional)

Makes 6-8 snack-sized servings

1. Preheat oven to 350°. Cover a baking sheet with aluminum foil and spray with nonstick coating.  
2. Finely chop turkey jerky.  
3. Mix oats, 1 cup of turkey jerky, nuts, spices, and soy sauce in bowl.  
4. Add egg whites of the two eggs.  
5. Mix until oats are evenly dampened and mixture is clumpy.  
6. Spread mixture onto baking sheet and bake for 30 minutes, or until crunchy.  
7. Let cool before storing.

Granola is an infinitely adaptable recipe. You can add coconut, more spices, and even chocolates. Or, you can go all the way and make it entirely out of meat. The choice is yours.

**Asian Coleslaw**

1 medium daikon radish  
2 carrots  
1 tablespoon soy sauce  
1 tablespoon black rice vinegar  
1 teaspoon sesame oil  
1 teaspoon sesame seeds

Makes 2-4 servings

1. Wash and peel daikon and carrots.  
2. Grate daikon and carrots. Squeeze the juice from the daikon shreds.  
3. Mix daikon and carrot shreds, soy sauce, vinegar, and sesame seeds.  
4. Refrigerate until cool.

Daikon radishes are long, thick white roots that have a peculiar odor. They can be found in Asian supermarkets and at Harvest Co-op. Squeezing the juice from the daikon shreds makes the salad less soggy and reduces the pungency of the radish. This is a great, easy-to-prepare side dish for hot, muggy days. Leftovers make good sandwich toppings, or can be incorporated into other salads.