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## Professor Benjamin Wows Colbert Nation

By Garrett Menghini '13

If you were one of the million Americans who watched have to 'defend' math, but I had no hints as to what else The Colbert Report on January 27, you may have been surprised to see a familiar face. For Professor Arthur Benjamin, what began as a surprising phone call in December cumulated in an appearance on Stephen Colbert's latenight show.

In this episode, Professor Benjamin participated in a seven-minute interview, conducted by Stephen Colbert. Although the interview displayed his ability to perform incredible mental math calculations, it was Professor Benjamin's TED talk that drew the attention of the producers. "I was contacted out of the blue by them in December," said Professor Benjamin. "They had seen me give a 3-minute TED talk about the virtues of learning statistics (instead of calculus) in high school. They did not know about my mental math stuff until I told them about it during my phone conversation with them in January."

Says Professor Benjamin of his experience, "I was pretty nervous, since I had seen enough episodes of the show to know that he might ask me anything. I was expecting to

he might ask." After introducing Benjamin's book, Secrets of Mental Math, as well as his DVD, The Joy of Mathematics, Colbert's first question, "Can you really have sex with math?", proved just how random the host could be.

"The main thing the producer repeatedly told me was to not try to be funny. They like their guests to play it straight and try to make legitimate points, even as Colbert asks offthe-wall questions. I figured they would ask me to do some mental calculations too, and I was afraid I would give a wrong answer or say something foolish. I tried not to think about the fact that the episode would be seen by over one million people."

After coolly responding to Colbert's first question with "I better not go there," Professor Benjamin appeared to settle into his role. When Colbert prompted him to square 388, Professor Benjamin immediately responded correctly with 150,554. Says Professor Benjamin regarding the beginning of the interview, "Once I got the first few answers right, I was able to relax a bit more."



PHOTO COURTESY OF ARTHUR BENJAMIN

Throughout the interview Professor Benjamin countered Colbert's jokes and whimsical questions simply by being himself. In response to one of Colbert's final questions, Benjamin explained his favorite number: "When I grew up my favorite number was 2,520. It was the smallest number that was divisible by all the numbers from one through ten. I was a weird kid; as a kid I loved playing with numbers." Professor Benjamin proceeded to state, "I found the consistency of mathematics to be absolutely beautiful, and I still do today." He then finished the interview with yet another mental calculation, correctly squaring 245 (60,025).

Although the interview was brief, The Secrets of Mental Math immediately experienced accelerated success. Before his appearance on The Colbert Report, Professor Benjamin's book had an Amazon rating of 2209. However, the day after the interview, its rating skyrocketed to 17. Professor Benjamin is not planning on an immediate sequel; however, he is working on a Mental Math DVD course that is due to be released in 2011. So keep an eye out for this next DVD on the bestsellers list, as Professor Benjamin continues to inform the American public about the power and beauty of mathematics.



PHOTO COURTESY OF WWW.COLBERTNATION.COM



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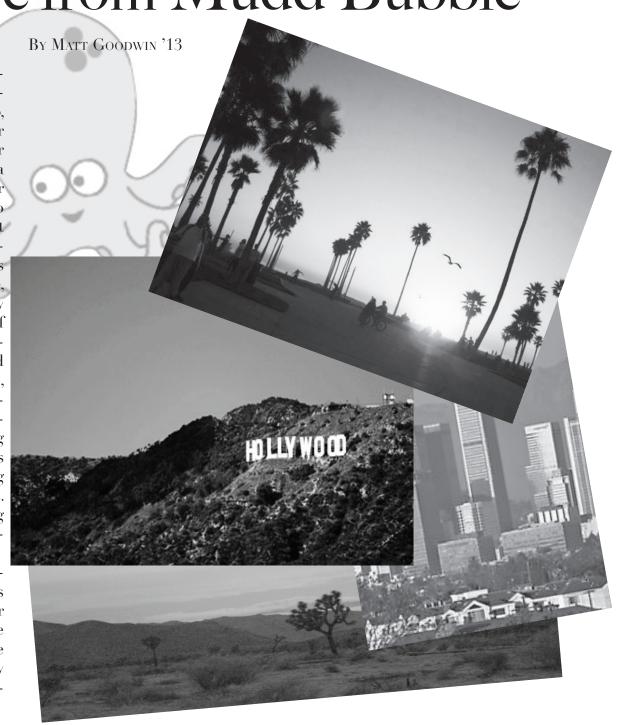
Movie Review: Avatar Comic of the Issue

Ask a Prof.: Prof. Maloney Ghost Hunting on the 5Cs

Muddraker Poll Puzzle of the Issue Off Campus Connection Offers Escape from Mudd Bubble

The recently opened Off Campus Connection started as collaboration between students as a means of improving the Mudd community. The leaders of the group, Raffi Attarian, Caro De Freitas, Nick Hasegawa, Jennifer Osgood, and Jeff Taylor, were originally inspired by their freshman Humanities class, taught by Professor Debra Mashek, that dealt with building community. In their Junior year these students decided it was their turn to give back and set out to do their best to improve what Mudd currently offers to its students. One of the greatest issues that needed improvement was the notorious "Mudd Bubble." They knew, from personal experience, how constraining the bubble could be. Last year, they met with Professor Mashek to discuss the logistics of the Off Campus Connection. At a recent meeting, I talked with those involved just to see what the center would have to offer. Stationed near the exit of the dining hall, the "OCC at the Hoch" would provide students with information regarding off-campus events and transportation. From a resource library to information concerning local events and volunteer opportunities, the OCC aims to help Mudders engage themselves in the surrounding community and build strong off-campus relationships. Students can also enter occasional raffles by stopping by and perusing the local events board and booklet stationed at the OCC.

Now, many of you might be curious about the resource center's mascot "Ollie the Octopus." His origins arise from the OCC acronym (OCCtopus) and in further brainstorming sessions it became apparent that Ollie makes a rather fitting name for a helpful, informative Cephalopod. So, if you're feeling a bit overwhelmed by "the Bubble," feel free to stop by and plan an adventurous escape.



## Taking to the Skies with the Barnstormers

break, a small group of Mudders met with through the Barnstormers Club, this flying mini-course sought to teach students some of the basic steps of learning to fly an airplane.

The Barnstormers originated from the who spoke at Mudd earlier this year. Bates Aeronautics Program, a two-year curriculum of classes and flight designed specifically for HMC students that lasted from 1962 to 1990. Now an HMC club for any student with an interest in aeronautics, Barnstormers hosts a variety of activities, including an annual fly-in of former Bates Program graduates, a gliding trip, visits to aeronautical museums, and now the flying mini-course. Iris Critchell, who acts as the club's advisor, discussed the origins of the Barnstormers club: "Students through the years have shown a wide range of interests in aeroscience, aviation, and aeronautics.

During the last weekend of winter They simply asked me to be the club advisor and help them make contacts in the one goal: to learn how to fly. Organized field, or provide some aero learning opportunities. Quite a few of these students went on to interesting careers in aeronautics and space." One such student is NASA astronaut George "Pinky" Nelson,

> Mrs. Critchell has organized the flying mini-course for six of the last ten years. This year, she took nine students in three groups up in the air in her Cessna 172 airplane. Dr. Eugene Kopp, the parent of a Bates alumnus, generously lent his own plane to the program. The group of students was provided lunch through the kind efforts of the Roberts' family, who are also HMC alumni. The students organized group dinners over which they discussed the day's events.

> For the mini-course, students spent mornings in Sprague Library studying



Iris Critchell and Joseph Min '12 copilot Cessna 7642G into Riverside Municipal Airport. Photo Courtesy of Katarina Hoeger '13

weather patterns, generating flight plans, maps and the tools that we had and then identifying significant landmarks to use during flight, and estimating distances, times, and velocities. The afternoon hours were devoted to ground school and to carrying out the flight plans designed that morning. Participants flew a short run to a nearby airport for the first lesson, and a longer, cross-country flight on a separate day (due to the adverse weather conditions at the end of break, some flights were postponed to later dates).

Students responded enthusiastically when asked about their experience with the mini-course. "I actually really enjoyed plotting our course in class using the

following that course in the air," explained Johnson Qu '12. "The mini-course was definitely a great way to end the break," commented J Brill '13. "Not only did I get to fly in, and fly, a personal plane, but I was taught how to use various tools to make a flight plan and then execute it. That sense of being in control was really something. Everyone in charge was really great and took care of everything, from housing to transportation to food. Thanks to all of

Subscribe to aeronautics-l for further information on the Barnstormers Club and their flying activities.



Barnstormers map out a cross country flight. Photo Courtesy of Katarina Hoeger '13

## All-Stars Take the Grand Texas Stage

By Johnathan Chai '13

Lakers guard, Kobe Bryant, veteran his first shot at the All-Star game after forward Tim Duncan of the San An- having several remarkable seasons as tonio Spurs, and Carmelo Anthony of a point guard with the Utah Jazz. The the Denver Nuggets. The PhoenixSuns Chicago Bulls have not had an All-Star have two players on the starting roster: since Michael Jordan but Derrick Rose, Steve Nash and Amar'e Stoudemire, the first overall pick in the draft a few who have thrived in Phoenix with their years ago, gets his first appearance as fast paced style. The Eastern Confer- well. ence also has a talented group of well known superstars, including LeBron James, Dwyane Wade, and Kevin Garnett. Allen Iverson makes another apdelphia 76ers. The Eastern quintet is sharpshooting in the H.O.R.S.E and completed with the young, emerging Three-Point Contest. Many celebrities

The National Basketball Associa- center, Dwight Howard of the Orlando are also expected to make appearances

During the All-Star weekend, a number of events take place. The skills challenge, featuring four elite guards, tests ball handling ability and shootpearance after returning to the Phila- ing. Players will also showcase their

tion's top players are set to match off in Magic. The starting lineups are deter- at the games. Musician Pitbull, Chris the 2010 NBA All-Star game in Dallas mined by popular fan vote, but team Tucker, and Joel Moore from Avatar on February 14th. The Western Con- coaches select the reserve players for will participate in the Celebrity Game. ference starters include our local L.A. both conferences. Deron Williams gets Alicia Keys, Shakira, and Usher will perform during the halftime show. The most anticipated side-event is usually the Slam Dunk challenge. Last year's dunk champion, Nate Robinson, will fight to keep his title against Gerald Wallace, Shannon Brown, and the Dunk-In winner. The Dunk-In is a new concept introduced to this year's festivities. Rookies Eric Gordon and De-Mar DeRozan will face off during the halftime of the Rookie Challenge game to earn the right to compete with the other three dunkers.



## A Head Start in Freshman Physics By Johnathan Chai '13

The Physics department held a workshop over winter break to help the Class of 2013 prepare for Physics 24, the classical mechanics course taught to second semester freshmen. From January 13th to 16th, twenty students practiced drawing free-body diagrams, studied rotational motion, and set up equations involving Newton's second law. Each of the four days consisted of two three-hour sessions, one in the morning and the other in the evening. Professor Patricia Sparks gave brief lectures at the start of each day, and the students worked on problem sets in their free time. The program's objective was to help level the playing field by introducing classical mechanics concepts to freshmen with weaker backgrounds in physics. Three sophomores, Jeep Srisuknimit, Paul Hobbs, and Lilian De Greef, acted as teaching assistants and provided problem solving advice. Hobbs also organized DOS subsidized day trips to the movies, laser tag, mini golf, and bowling. Says de Greef, "there was no sense of pressure and large chunks of the day were devoted to whatever unrelated fun things we felt like." By the end of the intensive four days, everyone had gained a greater confidence in tackling physics problems. The workshop was a success and, with student feedback, Professor Sparks hopes to improve it for next year.

Photo Courtesy of Getty Images

## Deans, Career Services Swap Places Over Break

By Scott Almond '11

erated by the planned renovation of Thomas-Garrett Hall and the emptying of Sprague Library, the community was surprised to learn of another change on the Harvey Mudd Campus: the swap of Career Services office and personnel with that of the Dean of Students'. The switch was prompted by a continuing desire to unite the Deans in a single wing.

Originally, the swap was scheduled to occur over winter break and be completed before school reopened on January 12th. However, rainy weather was formidable during the last week of construction and delayed the completion of the project until January 18th. According to Associate Dean of Students/Director of Student Activities Chris Sundberg, "We could either go crazy to get it done on time or we could take an extra week to do it right." The

Given the hubbub that has been gen- main concern was the carpeting, which couldn't get wet without risking permanent damage. The Dean of Students resided in the first floor of Sprague Library until the renovation of the new office was completed.

Although the move united Deans Mary Cardenas, Maggie Browning, Chris Sundberg, and Guy Gerbick, Dean Beverly Chen will retain her old office in the west wing north of the Registrar's Office. Her current office provides more privacy and space while granting more student access than a new office in the east wing would.

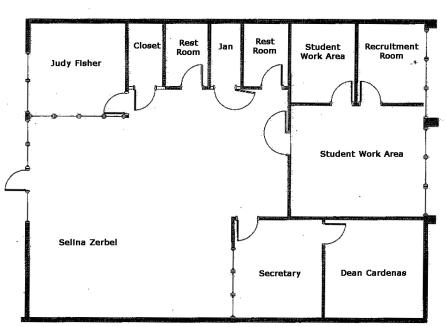
The office of the Dean of Institutional Diversity will not be directly connected with the new Deans' offices. The wall separating the lower and upper portions of the East wing is a load-bearing wall and could not facilitate a door connecting the two halves.

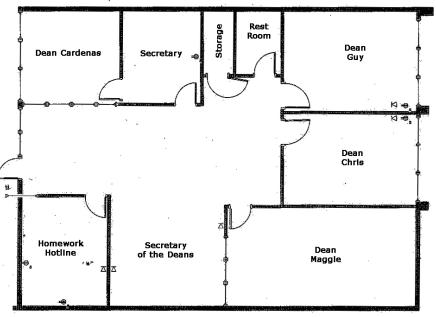
This move grants a considerable amount rooms than before, she indicated that they of space to the Dean of Students at the expense of Career Services. With the new space, DOS has created a "Homework Hotline" service where local high school students can call Harvey Mudd students for help on homework problems. Gabriela Gamiz-Gomez, whose office is also located in the new Dean of Students' office. is organizing this new program.

When asked for his thoughts on the uneven swap, Sundberg indicated that whereas the Dean of Students' office has seven staff members, the Career Services office only has three. As such, he felt more floor space was warranted for the additional offices the Deans would require in the East wing.

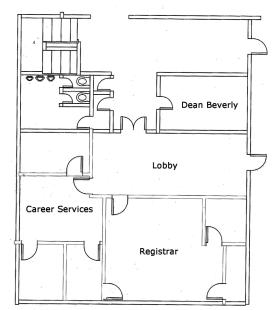
Secretary of Career Services Selina Zerbel said she was happy with the swap. Although the new location offered fewer

could make do with less space. The rooms are noticeably smaller than before and amends need to be taken to account for the loss of one recruitment room; Zerbel said that an additional recruitment room can be procured from the Hoch Dining Hall if the first is in use. Although the rooms are smaller, this loss is somewhat beneficial. Judy Fisher, Director of the Office of Career Services, had previously indicated the primary recruitment room in the old location had proven intimidating because of its size when only a two-person room was needed. Zerbel concluded the move had gone quite smoothly and besides some remaining work to reduce noise by removing certain vents, she was eager to begin work in the new location.





Floor plan of the East Wing of the Platt Campus Center before (left) and after (right) the switch. Deans are being consolidated into the East Wing.



Current floor plan of the West Wing of Platt Community Center. Although they have less space now, Career Services feels they can take advantage of it.

## A Return to Sprague New Student Computer Labs to Occupy First Floor

By Ben Keller '10

Ever since the books and last spring, the first floor has land. While the upper floors are the Dean of Faculty's office, the ground floor feels abandoned, providing a lackluster backdrop upperclassmen hurrying to their clinic rooms. But this will soon change, as the College begins its implementation of a new "learning studio" that will replace the computer labs in the basement of Parsons as the central CIS-managed computing facility for students on campus. If all goes according to plan, the new facility will not only breathe new life into the first floor of Sprague, but will also redefine the way students use computing resources on the academic side of campus.



An example of a chair that could be used in the redesign of first-floor Sprague Library. Flexible furniture such as this will help make the space both useful and comfortable.

PHOTO COURTESY OF BRANDRUD.COM

staff departed Sprague Library lab has been more than a year in is expected to feature a mix of the making. In the fall of 2008, become something of a no-man's HMC received a grant from the Fletcher Jones Foundation, part used by the math and computer of which was allocated for a science departments, and the renovation of the Parsons Mac fourth floor remains the home of and PC labs. Before proceeding with any changes, CIS staff held focus groups and discussions with students and faculty to determine what the users of the space most wanted from it. In these discussions, students and faculty alike expressed their preference for flexible, comfortable spaces that could be easily reconfigured for group work. It quickly became clear that a simple renovation of the existing labs would not be enough to achieve these goals. When Sprague Library was closed, CIS, in consultation with the President's Cabinet and the Department Chairs Committee, immediately began to consider the idea of appropriating the first floor for a new lab space that could better meet the needs of

> its users. Over the summer, CIS and F&M hired an architect to begin considering layouts of the new space. While a renovation of the existing labs was initially expected to be completed by the end of last semester, the complete redesign has added to the complexity of the project, which is now on track to be completed by the end of the current semester. If this goal is met, the existing Parsons labs would also be closed at that

While the plans for the new

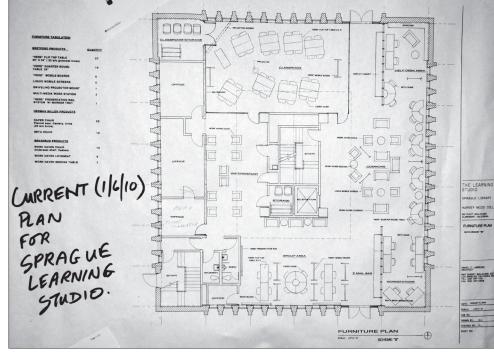
The idea for a new computer space are not yet finalized, it Macs and PCs totaling roughly eighteen fixed workstations, as well as up to two dozen laptops that will be available for student checkout. One area will be designated as classroom space, featuring flexible furniture and "NanaWalls" that can be opened or closed to optionally isolate the classroom from the rest of the facility. Other areas will feature comfortable chairs and numerous whiteboards, allowing students to configure the space according to their needs. A CIS help desk will be staffed during business hours, although the space will be accessible to students at all hours, similar to the current labs.

> When I spoke with Elizabeth Hodas, the Director of Educational Technology and Media Services within CIS, she was optimistic about the new space, stressing the extent to which CIS was trying to be responsive to the feedback of its users in designing the new lab. However, she noted that the space would definitely be "experimental," and that CIS was "not expecting it to be perfect" on the first attempt. Although many students and faculty use the current labs, the new space will be a much better reflection of the ways in which students work on academic computers. By moving away from monolithic rows of terminals and shifting focus to spaces that encourage flexibility and collaboration, the new learning studio will be able to more effectively promote both teaching and learning at HMC.



The first floor of Sprague Library, no longer in use after the library was moved to the Claremont Colleges' Honnold Mudd Library. The CIS department is in the midst of redesigning the empty space into a "learning studio."

Photo Courtesy of Katie Hauser '13



The proposed floor plan of the new Sprague Learning Center. CIS hopes to move away from computer labs consisting of rows of computers, and towards a more flexible

Photo Courtesy of Katie Hauser '13

## Gender-Bending Posters Spark Debate on Campus

By ALICE Paul'12

you may have noticed some new posters around the Hoch. Not your plain, grabbing phrases regarding similar their gender. white, small posters that seem to sprout on every wall and wart. These posters were big, colorful, and bold, featuring gender identity and gender variance pictures and quotes of Harvey Mudd because at Mudd, and in society in genstudents. These posters were the work of Lowell Reade '12 and a few other students at Harvey Mudd.

For a final grade in their Intro to Queer Studies class at Scripps, students could either choose to write an essay or design a project that encompassed the themes of the class. A group consisting of Mudders chose the latter, creating a collection of posters featuring Mudd students and quotes about gender identity and gender roles in so-

"We decided to do a project about eral, there is such a deeply held belief that gender exists as a binary -- you're either a boy or you're a girl. And we wanted to say that 'No, that's not true, especially at Mudd," explained Reade.

Some of the posters featured personal statements about the pictured person's own gender while others incorporated more general opinions. One particularly powerful poster stated, "Androgynous (and proud)," boldly

Towards the end of last semester ciety. Accompanying these larger post-excuses or qualifiers. The author clear-vocative language seemed to add to the ers were smaller posters with attention ly didn't care what you thought about overall power of the project. It really

> "I think transgender identities and other sorts of trans topics are very unfamiliar to many people. I know that for me, I'm still always learning more about it, and I hear that a lot from other LGB people," says Reade. Perhaps this is why some of the phrases (such as "gender-fucked," "girlyfag" and "fuck the gender binary, buck the gender finary") on the posters generated such a response on community-l, where many shared their opinion on the word choice and potential confusion to visitors. Although Lowell believes these phrases distracted people from some of declaring an identity without offering the more powerful messages, the pro-

highlighted the ways in which we fail to completely acknowledge the identities of others around us. Mudd may have introduced gender neutral housing, but there remains much more to be acknowledged, discussed, and understood about gender identity on our campus. This project was a powerful statement, but hopefully it will not be the end of the conversation.

For more information, and to see the posters, you can visit the project website at genderpending.blogspot.com.

## Mudd From Afar An International Student's Experience

By Ayyappa Vemulkar '13

three years ago as a member of an exchange program. Staying with a won-pared myself for the task at hand: not derful host family, it was quite obvious really communication so much as prothat the first day would hold a couple nunciation. I then remember SI menof surprises. While I was sitting down tor Hayden Hatch '12 handing me my at the dinner table for my first Ameri- room key and, with great enthusiasm, can meal and worrying how different jokingly saying, "Are you ready? Are an American pork chop was from an you ready for the moment? The minute Indian one, my hostess posed a rather—you touch this key, you're a member of—they filled the walkways on the way to simple question: "What milk would Harvey Mudd College." I learned a lot classes. The first week of college was you like?" Surprised by the question, I about American culture and the new truly a honeymoon. However, it also hit that we are challenged to think bereplied, "Chocolate will do quite fine." lifestyle I would have to swim in dur- me with a really heavy concept called yond our usual scope, as compared to milk, but what kind of milk would you ful. We played "Sha-raads" instead of in America was named differently, too. used to, was a splendid change. I think like?" was the instant reply. Astounded Charades and gorged ourselves on deby the question, I wondered whether I licious food. Exploring Los Angeles, I family and I entered a diner in search Harvey Mudd College is the fact that was missing something. Various kinds—was introduced to the concept of excel-—of warmth. The order that went across—I feel at home here, even though I acof milk flew through my head: goat, lence that is ever so prevalent here. The table was quite consistent: clam tually come from the other side of the cow, buffalo. Not wanting to appear emphasis that is placed on the need to cheeky, I told her I had no clue what develop and create efficiently and aesshe was asking. Then came the "1% fat, thetically surprised me. The emphasis 2% fat, or whole milk," and thus I was on quality over quantity attracted me introduced to the diversity that characterizes this country at every level.

with Harvey Mudd College the day I diversity, an amazing cultural mashpot, arrived for Summer Institute. After and an introduction to campus flew by running through every syllable of my

I first visited the United States about name with two SI mentors Nick Hill '12 and Steve Matsumoto '12, I pretowards what I believe is a challenging and satisfying lifestyle. Two excitquickly.

The friendly atmosphere at college barrassed my roommate by using the understand the exclamatory tone peo-I told them where I had decided to go ham needed its own special name. to college. My first class in Special Relchowder and bowl of chili. When the moment came for me to place my orchili peppers could sufficiently satisfy someone's hunger, especially a countheir way. try not used to spice. I also utterly em-

swallowed me instantly. I didn't quite word "chilis." As it turns out, the word "chili" has no plural! I certainly didn't ple would say "Harvey Mudd!" in when understand why rice and beans with

The work ethic here is a new exativity certainly dealt with that. Uni-perience entirely. The presence of the cycles and skateboards were things I Honor Code, along with a strong colonly saw in movies back home, but here laborative environment and the challenging academic program, makes life exciting and eventful. The simple fact "Well, yes. I could put chocolate in your—ing SI. The three weeks were wonder-—responsibility. I soon realized that food—the do-what-you're-told attitude I was Over Thanksgiving, my roommate's the most important part about going to globe. The strong presence of trust, the small college environment, and the evder, I was quite convinced that clam er-forgiving attitude at Mudd is really chowder and chili was the way to go. inviting even for those weak at heart. Something troubled me though while The experience so far as an internawe waited for our food to be served. tional student has been spectacular, I think I pretty much fell in love ing weeks, with important lessons in I failed to understand how a bowl of and I am quite confident that there are plenty more memorable moments on

## Now a One-Time Cinema Critic!

Avatar if you don't). Short version: the cinkeep in mind two things. One, I'm probably horrifically biased towards the most "technion's movie was still inspiring enough for me a reputable group and send them. to try my hand at the Roger Ebert trade.

To all of you of a more pacifistic bent (7.0 moment magnitude), and we probably

• My other article for this edition of the who bemoan the increase in U.S. military pow- won't know the number of casualties from Muddraker is somewhat unusual, in that it's er over time, I should like to point out that a pretty much apolitical. It's a review of James very significant portion of Haitian earthquake Cameron's magnum opus Avatar, one of the relief efforts are very military oriented. Coast highest grossing films of all time (Gone with Guard cutters, the USNS Comfort hospital etc.). Meanwhile, a fair number of Americans the Wind is first if you adjust for inflation; ship, the USS Carl Vinson aircraft carrier are more interested in the Jay Leno/Conan (remember that it's crewed, and that it needs ematography and CGI are beautiful; every- to supply its crew supplies it can divvy out thing else has been done better. Of course, to the suffering via helicopter complement), off full rescue operations). Interesting. C-130s to land personnel and (donated) supplies...the list goes on. And all that military celebrations and commemorations of Martin cal" aspects of the film's creation, being an preparedness is the reason (perhaps not the engineering student, and probably spend too main one, or the intended one) that these much time reading websites dedicated to tak-ships and copters can be moved into action ing the tropes and clichés of media apart. Two, so quickly. Send donations to redcross.org, or for all the flaws in story and character, Camer- americares.org, or...you know what, just find

• The Haiti earthquake was very strong

the natural disaster. High end estimates place the count at 200,000 dead, as many wounded, and at least 3,000,000 total affected (displaced, O'Brien tiff than in post-quake relief efforts (the Haitian government has officially called

 Advertisements in the Hoch tell me that Luther King Jr. will continue into February. Fair enough, except...at time of writing, tomorrow, Jan. 27, is International Holocaust Remembrance Day. You'll probably be reading this sometime after Valentine's Day (in which case, insert mildly annoyed rant at corruption to "V-day" like some sort of victoryin-war date and refer to previous Random Random Thoughts, continuted on page 5

# Superbowl XLIV: The Saints Go Marching In

By Kevin Leyden '13

"Who dat? Who dat say dey gonna beat dem Saints?"

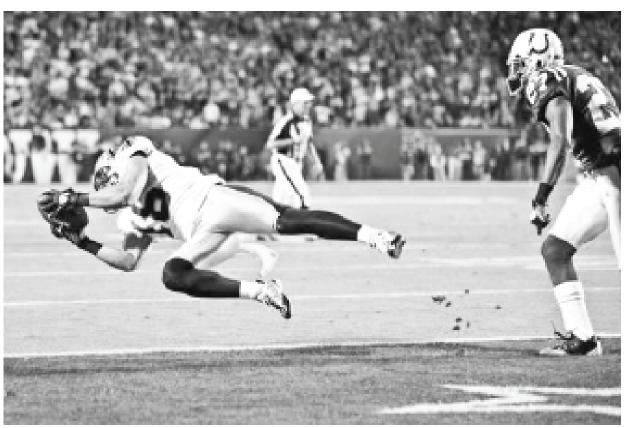
This chant, the battle cry of a New Orleans fan base hungry for success, reigned supreme on the night of Sunday, February 7, as the Saints won Super Bowl XLIV over the Indianapolis Colts by the final score of 31-17 in their first ever appearance in the NFL's title game. Saints quarterback Drew Brees was named MVP, with 32 completions in 39 attempts, two of them for touchdowns, and a rating of 114.5.

Super Bowl Sunday brought the football fans a spectacle of a game, a nailbiter all the way up to crunch time. In the first quarter, Colts quarterback Peyton Manning was in control, driving his offense down the field while the Saints struggled to find their groove. A field goal and a TD pass from Manning to Pierre Garçon put the Colts up 10-0. The Saints held the ball for much of the second quarter, but could not find the end zone; still, Garrett Hartley came through with two field goals of over 40 yards to make it close at halftime, 10-6 in favor of the Colts.

On the Saints' first drive of the second half, running back Pierre Thomas caught a short pass from Brees, taking it 16 yards to the house and giving the Saints a 13-10 lead. The Colts countered with a TD run from Joseph Addai, but Hartley kicked another long field goal, this time from 47 yards, to bring the Saints within a point heading into the fourth quarter. With under six minutes remaining, Saints tight end Jeremy Shockey caught a two-yard TD pass from Brees, who proceeded to complete a two-point conversion to Lance Moore, making the score 24-17, Saints. Manning, famous for his fourth-quarter come-from-behind victories, thought he had a man open, but Saints cornerback Tracy Porter jumped the route and returned the interception 74 yards for a touchdown, which was the icing on the cake for the Saints.



PHOTO COURTESY OF BEN LIEBENBERG/NFL.COM



SAINTS PLAYER LANCE MOORE CATCHES THE PASS FOR A TWO-POINT CONVERSION TO BRING HIS TEAM INTO A SEVEN POINT LEAD OVER THE INDIANAPOLIS COLTS. PHOTO COURTESY OF MARK J. TERRILL.

A Super Bowl victory came just at the right time for the city of New Orleans, which was still suffering from the effects of Hurricane Katrina, and for a Saints franchise that had never had such a huge win in its history. The Saints are woven into the fabric of the city, just as Green Bay "is" the Packers and Pittsburgh "is" the Steelers. Saints fans are diehards who make their house a hostile environment for any visitor, and have been a beacon of hope in the midst of the damage inflicted by Katrina. They and their ravaged community deserve this victory more than any other fan base; life is good in the Big Easy.

The spectacle of the Super Bowl did not disappoint, either. The Who were solid in their halftime performance, busting out several hits including "Pinball Wizard," "Who Are You," and "Won't Get Fooled Again." There were some extremely memorable commercials, too, such as the Budweiser spot where the people in the bar made a human bridge so the truck could cross a canyon, the Doritos ad in which the little boy slapped his would-be stepfather across the face for wanting his Doritos, and Audi's Green Police campaign, which definitely got fans' attention. I have to give a shout out to the beaver who lived like royalty after posting its résumé as a fiddle player on Monster. All in all, these contributions made it a good Super Sunday for the non-fan as well.

And now, the offseason begins! Fans everywhere will start talking about the upcoming draft, and Colts fans are in disbelief that their leader would let them down in crunch time, but in New Orleans, Lombardi Gras will rule in the streets for months, and in the minds of Saints fans for all time.

Who dat, indeed.

## Random Thoughts, continuted from page 4

apparent celebrations or commemorations advertised, certainly none funded by the colleges. The time of writing also happens to be India's "Republic Day," when the country affirmed their new constitution in 1950 (and declared independence in 1930). I don't wish to accuse anyone of anything for this particular bit, but how, exactly, do the colleges and humanitarian groups on campus decide which, if any, notable days should be commemorated, and how much they should be noted?

Amusingly (if you like schadenfreude...I do!), Massachusetts elected Republican Scott Brown to replace the deceased Ted Kennedy (in pace requiescat) in the Senate. It's getting much more media attention than your average East Coast Senate seat race because, supposedly, now the Democrats do not have a filibuster-proof majority in the Sen-stripes; that's the engineers' job and the scientists' tens of million dollars per year of life.) ate, and much hand-wringing over the fate of the job, that's the Mudders' job (shameless plug). health-care reform bill has ensued. First, that bill wasn't going into effect until the mid-2010s anyway, though wishing probably will not make it so...

can develop faster, cheaper ways to manufacture xray machines, drugs, and/or research plans, or even someone who can develop a way to produce a full surgeon in seven years from high school instead of the twelve-plus (college, med school, residency)

• I wish it were somehow required (even

Thoughts for annoyance at social justice group's and second, it didn't exactly have the full support ah well) of all politicians, social justice advocates, inflation of figures for noble causes), but I note no of every senator with a D in parentheses after the rhetoric masters and other such people (regardless name until after a significant amount of dealing. of class, station, etc.) to take at least one college And besides, to those who talk about the bill as if level economics course and one engineering deit would reduce the cost of health care, let me re-sign course. It might help moderate some of the iterate what I wrote two issues ago the costs are fluffy language that so infuriates me when I try to already settled. They went into the x-ray machines, process their speeches. For instance, it might force the anesthetic, the time and tuition that the newly-those advocates who say that "if it saves one life, it's minted surgeon and physician sunk into medical worth it" to reflect on alternate ways to save more school. The bill messes with the price of health care lives, the costs of their options, and how many lives (admittedly, so do some setups of insurance polimight be saved through investment in areas other cy). Cost reduction will come about by those who than that which they advocate, e.g. a "no asbestos" in cars" advocate being forced to compare the price per year of life of such a modification, including labor and enforcement, to the price per year of life of, say, subsidizing regular mammograms for breast cancer screening. (If my microeconomics textbook it currently takes. That's our job, politicians of all is any indication, the difference is on the scale of

# James Cameron's Avatar

## The Billion Dollars Went to the Artists

By Kevin Tham '12

Unless you've been living under a rock for the past eight months or so, you probably know some of the background of what James Cameron, of Titanic, Terminator, and Aliens, calls his magnum opus. You might know how the idea was floated first some fifteen years ago, how Cameron has stated his intention to make the film from 1996 on, how the movie took so long and had such a big budget because it uses the most advanced motion capture techniques and computer generated imagery to bring Cameron's ideas to life. You might also know how quickly it became a smash blockbuster, grossing one billion dollars in 2.5 weeks, and how it recouped its quarter-billion dollar production costs and more over the Christmas season. And, no doubt, you've probably read some other reviews praising Avatar as one of the very best movies of the year, if not the decade. However, its Metacritic score at time of writing is 84 of 100—universal acclaim, sure, but Pixar's recent releases of Up and WALL-E beat it handily (88, 94), and so does Miyazaki's Spirited Away (94), Coppola's Patton (91) and, bizarrely, Baron Cohen's Borat (Cultural Learnings, etc., 89). So what deflates Avatar to the level of "great blockbuster, but not GREATEST CINEMA EVAH!" levels?

Let's start with what the film does correctly. The motion capture and CGI no doubt received the largest portion of the movie's budget, and it shows. The animation of the cat/lemur/human cross-thingy Na'Vi is fluid and easy, without any jarring differences of texture, coloration, etc. between human and CGI characters that so characterized early forays into the technique. Environments are grand seas of green, blue, pastel pink and bioluminescence, with giant palm fronds blowing in the wind, oversized dandelion-like seed-things that flutter in and out of view and are partly sentient, and fungi-flowers that retract with an audible "fhwp" when touched. (It would be a fun place to get lost in, if not for the fauna). The rather deadly animals that inhabit the rainforest vistas are similarly well-designed and animated, only looking out of place due to their blue and purple colorations against the natural greens and browns of the moon of Pandora. They stand out immediately and invite some cannot-suspend-disbelief speculations over what environmental pressures would create such a jarring color contrast. The

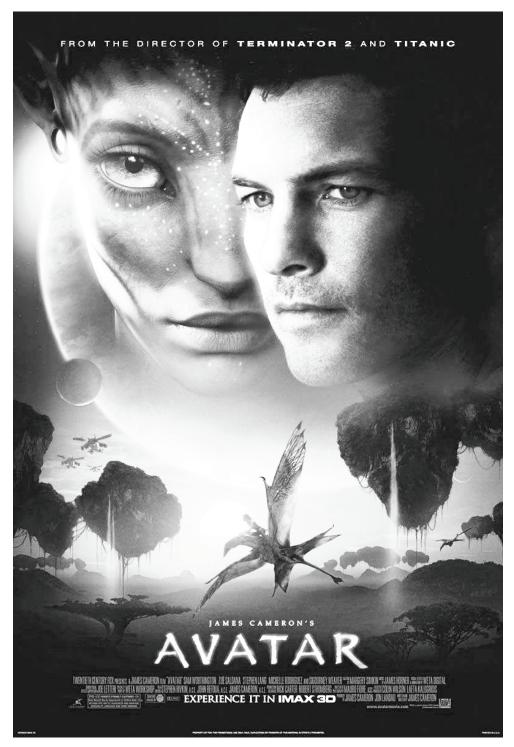
flying pterodactyl/dragon creatures, referred to as Banshees, are quite graceful in flight, but again one wonders at their colorations (one of the larger ones is bright red, a color which would not exactly serve as concealment in the air) and why their wings have membranes. On the other hand, if, while examining these landscapes, your thoughts tend towards examining Pandora as something outside of Cameron's imagination, some actual little speck light-years away from Earth with an environment evolved as such, then arguably the artistic directors have succeeded.

A shame, then, that plot, characterization and interaction, and scripting did not receive the same level of attention. The movie's plot, involving a conflict between the blatantly evil mining corporation RDA and the superior, noble and naturalistic Na'Vi over some mineral actually referred to as "unobtainium," is straight out of older movies like Dances with Wolves or The Last Samurai (if you care to compare the two); it's a perfectly standard addition to the "going native" set of movies and loses none of the predictability of action and unintentionally humorous maudlin overtones. (If you've never seen those movies, here's a quick rundown hero meets tribe while working for villainous organization, hero starts liking tribe, hero integrates into tribe, hero beats villainous organization with wisdom/help of tribe.) Dialogue between characters, both human and Na'Vi, is saccharine, wooden, utterly unnatural, and also unintentionally laugh-inducing (the protagonist character, for instance, has a war cry that sounds like that of Howard Dean, and a fair bit of the Na'Vi's dialogue on their cosmology is ripped straight from a straw-cult of Gaia); an interesting contrast to the beauty of the views. Sample from a scene involving the hero learning to hunt like a Na'Vi: "I see you, brother, and I thank you. Your spirit will depart, and your body stay here to become one with the People [a literal translation of Na'Vi in the movie]". Enough sap to start a maple syrup plant.

The characters are utterly forgettable; a few scant hours after leaving the theater I found that I could not remember the names of any of the major characters, and found myself referring to them by archetypes. You have the fairly bland hero (who, after some help with Wikipedia, I recall is named Jake Sully [Sam Worthington]), and

the absolutely grating amalgamation of every Noble Savage trope ever. Other characters are even thinner, with your Ace Pilot/Defector from Decadence, your Mystic Mama, your Tribal Chief, your Semiineffectual Scientist and her even less effectual assistants, a fairly-effeminate Corrupt Corporate Executive, and a whole bunch of gung-ho workers and soldiers straight out of a Vietnam War movie. The Na'Vi divinity character (always required in this sort of "going native" movie to get audience support and possibly spur the hero's defection) is a Gaia-archetype God-mother thingy referred to as Eywa, who apparently lives in the trees as a big packet of data that can command how the world changes and reacts. Her existence, for me, drives the climax of the movie straight from "whoo, the hero wins, like we didn't see that coming" to "what a blatant and obvious Ass Pull".

As with all Hollywood movies, there are a number of battle scenes designed to make sure that absolutely nobody is cheering for the RDA in the conclusion. The first, as is fairly standard for this scheme of film, is an absolute RDA-wins curbstomp, with Na'Vi bows and arrows bouncing off RDA gunship cockpit glass (don't ask what a mining company is doing with mil-spec gunships), which is what makes the second one so absolutely infuriating. The RDA decides to modify its mining shuttle and explosives into an impromptu bomber to wipe out a Na'Vi refugee camp and holy site. The hero, showing off his Messiah archetype, unites the Na'Vi and moves to knock the bomber and its escorts from the sky before the holy Tree of Souls gets blown up. But first he prays to Eywa, with an even more maudlin monologue ("...they killed their mother!" he says, referring to the humans and Earth), and is then told by his Love Interest that Eywa doesn't listen to pleas like that. So, obviously, when the heroic Na'Vi are throwing themselves ineffectually against the RDA forces and are just about to be defeated, a blatant and quite literal Deus ex Machina appears (remember—Eywa only exists as a CGI construct, if that) as all the animals of the moon start kamikaze-slamming into the RDA forces, giving the hero his chance to blow up the bomber. (The ecological damage resulting from such a large scale battle is not addressed.) But that's still not the climax—the Hero and his Love Interest have to



personally take down Col. Crazy, who has somehow survived nearasphyxiation, getting blown out of the sky, and Banshee kamikazes to be personally killed by the main characters. The whole scene was obviously supposed to be the dramatic climax of the film, intended to have the audience on the edge of their seats. It left me alternating between fuming at Col. Crazy's strategic incompetence and laughing. (But then, a fair bit of the film had me laughing.)

I'll quickly address the question of whether the film is racist by noting that the racism could go both ways. On the one hand, the nonnative hero quickly adapts and may even be considered superior to the native Na'Vi, uniting them against a common threat and doing deeds that other Na'Vi show are somewhat possible only rarely by someone with supremely honed skills. On the other hand, the Na'Vi are obviously physically and philosophically superior to the human scumbags, to the point where the hero can't even look human in his

interactions with them, and are implicitly show to be "right" about the nature of Pandora in a way that none of the human characters, not even the semi-ineffectual scientist. can understand. (Some would call them "Aryan".) This question is perhaps better left to the ethnic studies groups, who would be better intellectually equipped to tackle the

So, to summarize, Patton had more plausible and exciting action scenes and a better cast of characters, WALL-E and Up had better character personalities, development and interactions, Spirited Away had subtler plotting and message with a more interesting story to tell, and Borat was intentionally trying to be funny. Avatar only shows superiority in art direction, but it is certainly superior. The cardboard characters, the obvious plot, and the hammy dialogue are basically an insult to the work that went into the scenery.





By Samantha Ipser '13

The Muddraker: hits the world wide web. Summer

"Ask a Prof" is a regular section of the Muddraker. Here, you'll be given the chance to annonymously ask professors whatever you'd like. We'll be rotating professors for every issue.

Dear Professor Maloney,

What talent or skill do you wish you had?

-Inquisitive Intellectual

that I wish I had...but per-duction of Oliver, I danced haps the one I've wanted and 'Oom-pah-pah'-ed my the most and for the longest heart out. But after the show, is athleticism - that combi- my mom came up to me with nation of strength, balance, great sympathy in her voice and coordination that al- and said, "Oh sweetheart, lows other people to catch you got my genes!" Transa fly ball, execute a series of lation: "You really stunk it perfect pirouettes, or land a up!" back handspring.

When I got a part as a bar had run for second, know-

There are many talents maid in my high school pro-

In graduate school at Cor-My nonexistent athletic nell, my friends somehow ability is certainly not for lack convinced me that I should of trying. My mom grew up show up for the non-compoor and was determined to petitive chemistry softball raise her children with 'mid-team (the closest thing I dle-class values,' which to could find to T-ball). Everyher meant signing us up for one was incredibly kind and every extracurricular activ- supportive, and after getting ity she could imagine. Over on base a few times, I was bethe course of my childhood ginning to think that maybe and adolescence, my athletic my hand-eye coordination activities included: soccer, T- had improved. Then one ball, swimming, ballet, tap, day when I was celebrating jazz, gymnastics, figure skat- my safe arrival at first base, ing, horseback riding, hula, my friend and fellow teambasketball camp, water polo, mate pointed out that what I and skiing. I was terrible at called a base hit was actually each, got C's in every PE a fielder's choice. Our team class, and spent three years captain had put himself betrying to learn to ride a bike. fore me in the lineup and

ing that the opposing team would choose to throw him out before me. In fact, he had been taking outs for me all season! So much for my improved softball skills.

With time I've come to see that all my childhood activities ended up teaching me a much more valuable lesson than how to do a cartwheel (which I still can't do). In the process of stinking up the stage, the soccer field, the dance studio, the ski slopes, and so on, I learned how to fail. I learned over and over again what it is like to give my all to a pursuit, to do abysmally at it, and to keep doing it anyway. It's a lesson that has served me time and time again in adulthood like the time I put my thesis committee to sleep during my admission-to-candidacy exam in graduate school, or the time when my postdoctoral advisor and I patented a 'new' antibiotic that was actually reported in the litera-



Photo courtesy of Katie Hauser '13

ture 50 years ago, or like the at HMC. It's what I do best. time I attempted a VSEPR demo in Frosh Chem only to that I were more athletic. have all the balloons (ahem, I'm not saying I want to be electron groups) unravel and fall to the floor prompting raucous laughter...during both of my back-to-back lectures. Yep, I'm perfectly happy to stink up the classroom and research lab here

Still, I can't help wishing Kobe Bryant, but it would be awesome to make it through a semester of teaching in Jacobs B132 without tripping down the stairs in the middle of class...

Have a burning question for an HMC prof?

> Email the Muddraker at muddraker@gmail.com.

# Ghost Hunting on the 5C's

By Matthew Goodwin '13

night searching for the sanlooking for the mysterious we might find. Jacobs B123. Asking around,

When I was confronted to telling people I was looking was all about?). Taking this clothing. The cryptic word was of little use. The audido an article about ghosts, I for ghosts, because, well its as an omen, we stepped into "Reztip" was scrawled on a was admittedly intrigued, a bit creepy. After discussing the Outback, not sure of nearby picnic bench. Figurbut also a little dumbfound- my need to find something what we might find. At first ing we had overstayed our tating. No one was speaked. I didn't just want to write "paranormal" to write about we thought it may have been welcome, we found our way an article about ghosts here with friends it was decided somewhat of a dead end, out and continued on a bit at Mudd and across the 5C's, we should go a tour of the but as we walked further more optimistically to the I wanted to find some. I fig- Claremont Colleges, figur- and further away from the rest of our night's destinaured there must be some ing that if there were some point of no return we began tions. tormented spirits around spirits on campus we might to feel as if we had found here, maybe lurking around run into them going on a what we were looking for. the Pitzer and CMC cam- knew we were done for the the North Courtyard late at midnight stroll. With the Scattered on the floor were "Wolf Moon" above us we set signs of the haunt. The parts dals lost at Suds long ago. out on an erie Friday night of a smashed television laid Or perhaps there were some armed with a hand-cranked strewn about (ghost of Wespeeved poltergeists lurking flashlight and admittedly ties past?) next to a cash regaround the Libra complex low expectations for what ister stripped of its contents

idea of where I should be behind Linde Field. On our of an other worldly presare some specters at Scripps herd of bunnies; ghost bun-be the site of a campfire was on television, I called out all at Jay's Place Flexing Out but I figured it wouldn't nies I reckon, for no normal a pile of still-frozen scones to the spirits of the night, be best for me to wander bunny would be caught dead (Redcoats?) and even fur- even going so far as to ofaround that school's corri- out this late at night (Isn't ther was a paper-mache fig- fer them Scooby Snacks to

(pirate ghost? Perhaps...). Our first stop was the Further along we found dors at some ungodly hour that what Peter Cottontail ure dressed up in children's tease them out of hiding. It

Not having much luck on puses, it was suggested we go check out Pomona, the oldest of the 5C's. We made our way to the Greek Theater with a great sense of anticipation of what we might find. We found the theater empty and decided to perform a the ghostly audience. Going

torium stayed as quiet as it had began. No one was leviing in tongues, and the only "who" I was thinking of calling was "Dominos" despite Ray Parker's best efforts to convince me otherwise.

Walking back to Mudd, we night, but not entirely defeated in our quest. Perhaps, just perhaps, the ghosts were busy that night. Maybe they had homework, maybe they were at ITR games or playing Left For Dead 2. So as far as ghosts on the 5C's go, I find there really wasn't a great "Outback," the brushy area even more disturbing signs séance of sorts to awaken inconclusive evidence either way. Perhaps they don't want looking. Yes, apparently there way we were met by a small ence. Next to what looked to off of the séances I've seen to be found, or maybe they're for eternity.

## The Muddraker Poll

"What goal would you like to accomplish in 2010?"



Megan Wheeler Class of 2013

"I'd like to pass all my classes. I'm doing the Core classes, E4/E8, and choir off-campus."



**Masato Kocberber** Class of 2010

"I've signed up for the Warrior Dash at Lake Elsenora. It's a three-mile run through a paintball course."



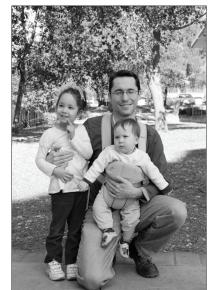
Paul Riggins
Class of 2012

"I'm applying for the SMART scholarship from the Department of Defense, which pays for college and offers both summer internships and a job after graduation."



**Heather Audesirk** Class of 2011

"I would like to join Global Clinic in Singapore. I think the project has far-reaching impacts and it's also a good experience."



**Prof. Eliot Bush** Assistant Professor of Biology

"I would like to buy a house, in Claremont or maybe in Upland."



Kim Kilday Class of 2013

"I would like to do well in my second semester, and also be more outgoing. There are lots of people here whom I don't know vet."



**Samuel Meyer** Class of 2012

"I want to finish making the South chess pieces in wood. I've got to get the wood first."



Jeff Hemphill Class of 2013

"I want to make the Atwood Rube Goldberg contraption a success!"



**Benjamin Hsieh** 

Class of 2011

"I want to explore the city of Claremont through its restaurants."

Poll conducted by Fiona Foo '13 Photos courtesy of Katie Hauser '13

## Πυζζλε οφ τηε Ισσυε

By Scott Almond '11

AT THE END OF A SEMESTER-LONG LOGIC COURSE. THE PROFESSOR ANNOUNCES THAT IN LIEU OF A TRADITIONAL FINAL. HE HAS DEVISED A TEST THAT THE ENTIRE CLASS WILL TAKE PART IN AND THAT ALL THE STUDENTS IN THE CLASS WILL SHARE IN THE SAME GRADE.

DURING THE SECOND-TO-LAST DAY OF CLASS, THE PROFESSOR MAKES THIS ANNOUNCEMENT:

"I HAVE MADE 20 T-SHIRTS, ONE FOR EACH STUDENT IN MY CLASS. I WILL HAND OUT THE T-SHIRTS ON THE LAST DAY OF CLASS FOR YOU TO WEAR. ON THE BACK OF EACH SHIRT IS PRINTED ONE OF TWO WORDS: "HARVEY" OR "MUDD". YOU ARE FREE TO LOOK AT THE BACK OF EVERYONE ELSE'S SHIRT, BUT YOU MAY NOT LOOK AT THE BACK OF YOUR OWN SHIRT (THOUGH THE USE OF A MIRROR OR OTHER METHODS).

ON THE LAST DAY OF CLASS, AFTER HANDING OUT THE T-SHIRTS, I WILL LINE YOU UP. I WILL ASK THE FIRST STUDENT WHETHER THE BACK OF THEIR SHIRT IS PRINTED WITH 'HARVEY' OR 'MUDD'. MAKING NO INDICATION AS TO WHETHER THEIR ANSWER IS CORRECT, I WILL MOVE ON TO THE NEXT STUDENT AND REPEAT THE SAME QUESTION. I WILL REPEAT THE QUESTION FOR EACH STUDENT IN THE CLASS. UNDER PEN-ALTY OF THE HONOR CODE, YOU MUST NOT COMMUNICATE WITH YOUR PEERS USING SUCH METHODS AS WHISPERING OR CREATIVE COUGHING.

YOU MAY CONSULT WITH YOUR CLASSMATES BEFORE THE FINAL, BUT NOT DURING THE LAST DAY OF CLASS. THE NUMBER OF CORRECT GUESS-ES THE CLASS MAKES FOR THE SHIRTS THEY ARE WEARING WILL DETERMINE YOUR GRADE FOR THE FINAL."

WHAT IS BEST GRADE THE STUDENTS CAN GUARANTEE THEY WILL RECEIVE?

If Q was odd, then if X & Y are both even or both odd, then the student declares their shirt to say "Harvey", otherwise they say "Mudd"

say "Harvey".

student keeps track of the number of "Harvey" shirts declared before him (X) (this number does not include the first student) and counts the number of "Harvey" shirts The first student counts the number of "Harvey" shirts he can see (Q) and declares "Harvey" if the number is even or "Mudd" if the number is odd. Each subsequent Solution: 95% - 19 students are guaranteed to correctly determine whether their shirts are printed with "Harvey" or "Mudd" if they stick to a plan.

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