OPINION ASE **SPORTS TUESDAY** What's the real deal with 'Tis the season for art exhibitions, XC season ending, but **NOVEMBER** Black Friday sales? local & downtown locations. we're sending 2 runners to Page 2 Page 6 nationals! 20, 2012 Page 7 Volume 174 | Issue 11 technewsiit.com OPINION 2 CAMPUS 3-4 **A&E 6** SPORTS 7 Student newspaper of Illinois Institute of Technology since 1928

Zero-waste Sustainability Forum wows

By Brock Auerbach-Lynn

TECHNEWS WRITER

Illinois Institute of Technology's (IIT) Office of Campus Energy & Sustainability hosted November's Sustainability Forum last Friday on "Achieving Zero-Waste". Building off the success of October's Forum on Building Energy Efficiency, the OCES was able to bring together an engaging and informative group of speakers to discuss the successes, failures and opportunities in zero-waste from multiple angles.

First to speak was Blake Davis, Adjunct Professor at IIT and board member at the innovative zero-waste facility known as The Plant. The Plant has recently installed a \$2 million anaerobic digester that nearly completes the closed loop recycling of material within the building. Everything including spent beer hops, waste heat, CO2, fish feces and plant debris is able to be recycled internally. The Plant will even be able to generate its own energy and should create more than it needs, making it a net exporter to the grid!

Prof. Davis then introduced John Dunsing, Environmental Sustainability Manager for Jewel-Osco. Mr. Dunsing has overseen the development of an innovative program to make Jewel-Osco stores zero-waste. This has been a work in progress with a triple focus: improving the traditional recycling program, developing a food scrap diversion program, and working with suppliers to reduce waste/use reusable material. John started with a small food scrap diversion pilot project in Bloomington-Normal, IL where 3 stores were able to divert their food scraps (after donating everything that was safe) to a local farm.

There were some false starts with

other stores due to cost issues using a traditional recycling model. Jewel-Osco has since been able to ramp this up to around 130 of 179 stores nationwide by working with waste haulers and setting up routes for collection that advantage of high pick-up density to achieve cost-effectiveness. Of stores that have achieved Zero-Waste (at least 90% diversion of waste) - of which Jewel-Osco has three levels - many have been able to go from generating 2,000 pounds of waste per day to about 40 pounds! This is an incredible change and one that has permeated down to every member of the Jewel-Osco team. Next time you're in

expanding this to

one of their stores, ask any employee about zero-waste! John is confident they'll be able to tell you all about it.





Photos by Christina Noonan

Dr. Raj Rajaram, Senior Consultant with GZA GeoEnvironmental Inc. and a waste management expert with over 35 years' experience in the field was the last speaker. Dr. Raja-

ram, an IIT Alumnus, has substantial experience working on zero-waste projects in India where waste management is far more local and advanced than in the U.S. Thanks in at least a small part to national legislation making it illegal to dispose of organic waste in landfills, India has developed an effective, sophisticated and low tech means of handling their organic waste. Many places have bike riders with baskets who go around and collect organic and traditional waste from houses; sometimes several times a day, and take the organics to a local compost facility. Liquid waste is also a gold mine according to Dr. Rajaram. Wastewater has very highly desired levels of nutrients (such as nitrogen and phosphorus) that we currently devote huge amounts of money to remove. Cleaning water for non-potable uses such as for farm fertilizer is already done successfully in many locations and could be done in the U.S. with some rule changes. Other successful local efforts towards achieving zero-waste, which Dr. Rajaram would like to see in the U.S., include technology that allows for home composting of organic waste under the sink where the biogas is recovered for energy generation and the compost used for soil fertilization.

The common message across the Forum was that there is paradigms shift in progress around waste, with a new dominant view emerging that sees it as a revenue source, not a cost. The rate at which we see adoption of innovative zero-waste technologies and policies is only limited by our desire, says Dr. Rajaram. They are already out there and working well for other parts of the world, why not Chicago and the U.S.!

Presidential Lecture Series brings world-renowned economist to campus

By Utsav Gandhi
CAMPUS EDITOR

Very rarely do undergraduate students get the chance to listen to and network directly with some of the most accomplished minds in academia, government or the private sector; those who have chalked out the very careers us as students are working hard towards.

IIT does an understatedly incredible job in bringing these big minds to campus on a regular basis; whether it is for the Benjamin Franklin Project, the Darsh Wasan Lecture, the Kilpatrick Lecture or the Karl Menger series; among other annual departmental traditions. The inaugural Dr. Irwin Stelzer, senior fellow and director of Hudson Institute's Economic Policy Studies Group, kicked off Presidential Lecture Series on Friday, October 19, 2012. A political columnist for various international economic periodicals, Dr. Stelzer has held various teaching positions at the world's foremost universities like NYU, Cornell, Oxford, MIT and Harvard (where he served as

the Director of the Energy and Environmental Policy Center). In his talk, Dr. Stelzer laid out the basis for an energy/environmental policy that aimed at bridging the gap between equitable development of energy sources and sustainable growth of the economy.

Dr. Stelzer started by laying out his foremost opinion - in a politically conflicting world, "risk management requires reversible approaches and the feedback loop". Every political decision comes with its own set of assumptions, stakeholders, uncertainties, and a misplaced sense of confidence in knowing everything ("policy paralysis") and remedies, which in some case might worsen the situation than the problem itself. While some call fossil fuels a disaster, the bird lobby says wind kills aerial life, power companies are gobbling up water in the name of hydroelectricity and fracking is irresponsible. There is both the "drill baby drill" crowd and the tree-hugging hippy that doesn't really contribute. The climate change debate sees both the believer who might be wrong; and the non-believer - who has less faith in the scientific model. In such a scenario, how does the government take sound decisions? How does it correct defects in one part of the system without negatively affecting other parts?

Well, for one thing – the distinction between fact and opinion has to be made clear. "Governments are made of laws, not of men," is what Dr. Stelzer had to say. But all regulators are biased; and maybe that's why, in today's increasingly pluralized world, all their voices matter. Since investments in energy are costly to reverse, they need to be made keeping the long run in mind. He spoke about the importance of dealing with taxes wisely: governments need to more stringently tax the pollutant; and he also advocated to internationally allow developing countries to work around this regulation as much as possible.

He addressed the complicated question of how he recommends the government can hand out subsidies to competing energy sectors. Like the case of Britain's public transit system, he recommends that venture capitalists take the product and actively bid for it.

Those motivated strongly enough must be willing to pay at least some price for it. This will significantly level the playing field and give a clear indication where the alternative energy movement is headed. The US Navy

was recently under fire for using \$27/gallon fuel made from algae oil and chicken fat; "in the interests of national security". Obviously, there are tradeoffs to everything; and Dr. Stelzer overwhelmingly recommended placing a common sense approach built around principles over an ideology-dominated methodology; especially in times of economic crisis.

When decisions such as the Keystone pipeline rest upon the President, the smart thing isn't to close it down completely, despite the environmental hue and cry. "If we don't swoop in for such opportunities, someone else will." upon He concluded that economic growth and environmental impact minimization is a delicate balance, though not impossible to achieve.

The next Presidential Lecture, also on the current theme of environmental sustainability, will be held on Tuesday, January 15 2013; and the last one at the end of the spring semester; making it a total of three lectures per academic year. Students are highly encouraged to come for the opportunity to hear about what the country's most celebrated voices have to say about the foremost challenges facing our generation.

TechNews

STUDENT NEWSPAPER OF ILLINOIS INSTITUTE OF **TECHNOLOGY SINCE 1928**

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ILLINOIS INSTITUTE OF TECHNOLOGY

Black Friday

Violence, negativity plague shopping holiday

By Shreeyeh Rajan

OPINION EDITOR

Most of us only refer to "Black Friday" - the day following Thanksgiving Day - as one of the biggest shopping days of the year. We picture the endless line of families covered with blankets and sitting on portable chairs waiting for Wal-Mart to open at 10 p.m., or the crowd of 20-year-old girls wearing fourinch boots waiting for Macy's to open at 3 a.m., or even the 12-year-olds running through the aisles of Target snatching anything with a discount tag at midnight. But there's more to this popular occasion, it's not just called Black Friday for nothing.

The reason it's called Black Friday is because of the numerous traffic accidents, violence, injuries and even death that happen due to stampedes in the stores. When surveyed, the most dangerous places seem to be the Wal-Mart's consumer electronic departments.

In 2011, in an attempt to get a Wii for a 60% discount, a woman pepper-sprayed an entire crowd in a Los Angeles Wal-Mart store. The worst Black Friday incident happened in 2008, when a man was trampled to death. According to an online source, "in 2008, Jdimytai Damour, a Long Island Wal-Mart temporary employee was trampled to death on Black Friday when shoppers at Green Acres Shopping Center pushed against the doors

to try to get them to open. Workers pushed back to try to keep the doors from breaking, but ultimately the masses won out and over 2000 people streamed in, trampling Damour. The paramedics who arrived and tried to save Damour were also trampled and seriously injured by shoppers who apparently didn't care that there was a dying man lying at the entrance of the store with paramedics trying to resuscitate him. All total, five shoppers had to be hospitalized at that one location." With nearly 135 million people shopping, as well as limited security and police officers, incidents like these are increasing.

When a survey was held to ask people whether they had a positive or negative feeling about the day, 71% rated it as negative. Why is that? I wouldn't question the gut feeling of the survey takers at all.

history have all referred to bad incidents: the scandals on September 24 1869, the Haymarket affairs on November 11 1887, the panic of foreign exchange dealers worldwide in September 1984, etc. Coincidentally, they all fall on a Friday.

With 212 million shoppers spending about \$39 billion on this Friday, retailers see it quite differently. Initially, retailers hated the term "Black Friday" because in spite of their profit, the term always reflected negativity. So to change that, many retailers reversed

the whole meaning by promoting the day with advertisements, commercials and coupons. Comparing how accountants use black ink to signify profit and red ink to signify loss, retailers started reversing the negativity. They began advertising 'Black Friday' as the day to get the biggest and best deals of the year.

TechNews | Tuesday, November 20, 2012

You may think that there's only competition among the millions of shoppers shopping to get the best discounts, but there is also a lot of competition in the retail business.

When Target opens at midnight, a 3 a.m. Macy's shopper is bound to choose Target over Macy's. Is this a good idea? Of course of it's a good idea as none of the other clothing stores open at that time.

So basically, stores are stealing customers who regularly shop in other stores. But how long will these clever ideas last? It's not All of the "black" days we've had in going to last very long. Customers and other retailers will eventually figure it out.

So, Black Fridays can be pretty dangerous, but it doesn't always have to be that way. Before the day, narrowing down the best deals and the best sales can save you time and effort. Circling all the ads that interest you and paying attention to the deals' deadlines are also important. Prioritizing what is necessary for you right now and what can be bought later can speed up your shopping. Black Fridays can be intense, but if you shop smartly, you won't have to risk most of the craziness!





Photos courtesy of csmonitor.com & blackfriday.bradsdeals.com

First IITMUG meeting meant to share knowlege, code

campus@technewsiit.com

By Pranava Teja Surukuchi IT MANAGER & LAYOUT EDITOR

The first IIT Mathematica User Group (IITMUG) meeting successfully took place on Thursday. You might already know that Dr.Grant Bunker conceived the group with the help of Dr. John Erickson and the main purpose of the group is to form a group of Mathematica enthusiasts to discuss and share coding in Mathematica.

Dr. Grant Bunker talked about the objective of the group and he also laid out the format of the meetings.

He said that the meetings are a way to share knowledge of the code among the group, which composes of Mathematica users with all levels of proficiency and from a starter to an expert. This means not only do people who are using Mathematica in their research can come and discuss how they use the language, but people who are just interested in Mathematica but are not quite familiar with the way it works can also go to the meetings and discuss it with their peers. The meetings are tentatively scheduled on Thursday every other week.

As a way to show the power of coding in Mathematica he showed a few examples, one of which showed dynamically rotating cube onto which live video feed from the laptop camera was projected onto it in just a couple of lines of code.

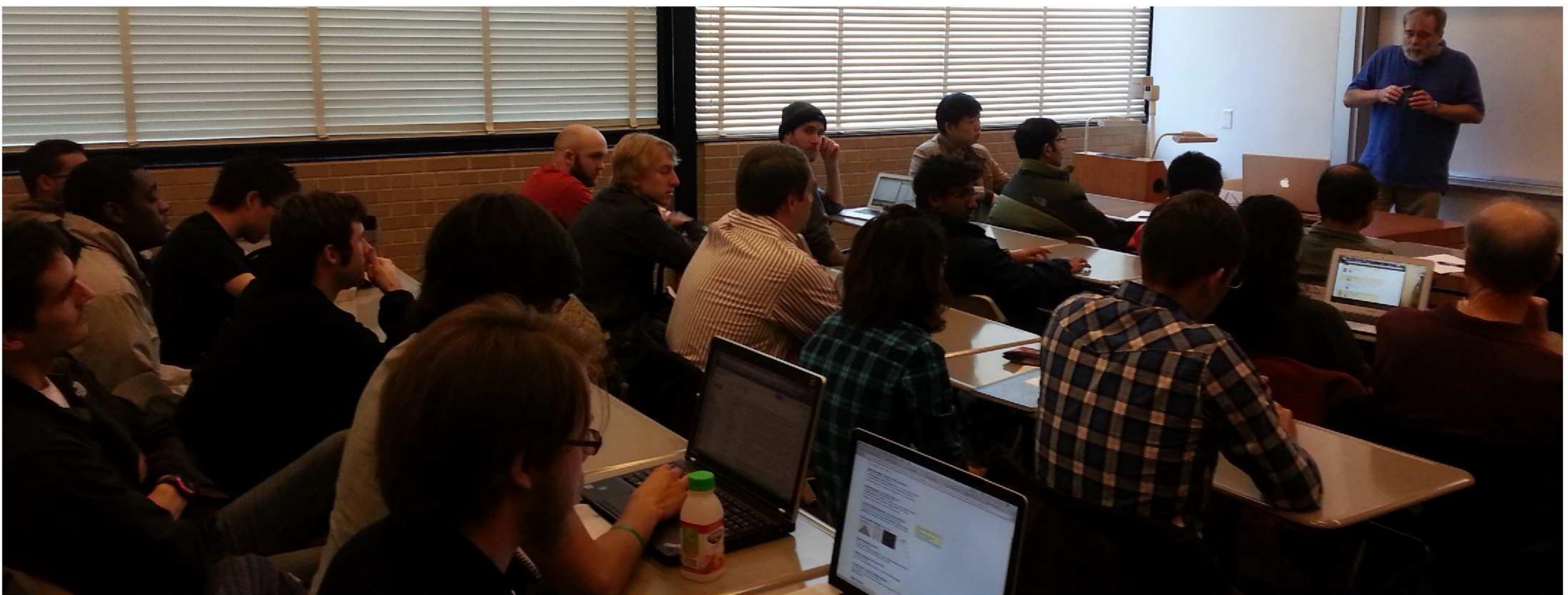
Finally, Bill Molchan, an undergraduate student then came up and talked about the idea of introducing a 400 level course next semester in Mathematica. The exact format of the course is still under discussion, and anybody with an idea of how they want to see the course format to be can send an email to Dr.John Erickson at john.erickson@iit.edu.

Photos by Pranava Teja Surukuchi





CAIVIPUS



SGA hosts Teaching Methods Forum

By Utsav Gandhi **CAMPUS EDITOR**

The Student Government Association organized a very productive and interactive session about instituting fundamental academic change which can be completely student driven. The tagline for the "Teaching Methods Forum" Facebook event itself asked a very fundamental question - "Do you like how your classes are taught? What have you seen in one class that you would like to see in others? What motivates you to learn?"

It was an incredibly productive conversation with a lot of very constructive ideas brought to the table. SGA will be using suggestions and thoughts from this forum as a framework for future proposals to be put forward to administration. It's important for students to take part in conversations like this because teaching and learning are topics we are all affected by. If SGA is going to make

proposals concerning these things, they need student opinions to be able to do that in an effective and representative way.

Some of the preliminary suggestions brought forward were applicable to a variety of majors. Regarding higher-level classes, especially Math and Physics, students felt enough examples weren't being used to supplement instruction. They also suggested more discussion-based classes, especially Humanities and Social Sciences - more so like the Shimer College style. They wanted to see more of an exploration of the subject and the field when taking the Intro to Profession classes. In Business classes, they wanted to see more real world examples and perspectivebased discussions rather than theory and its applications. For computer science classes, they wish to see more web apps incorporated to supplement instruction.

Students also want to see more

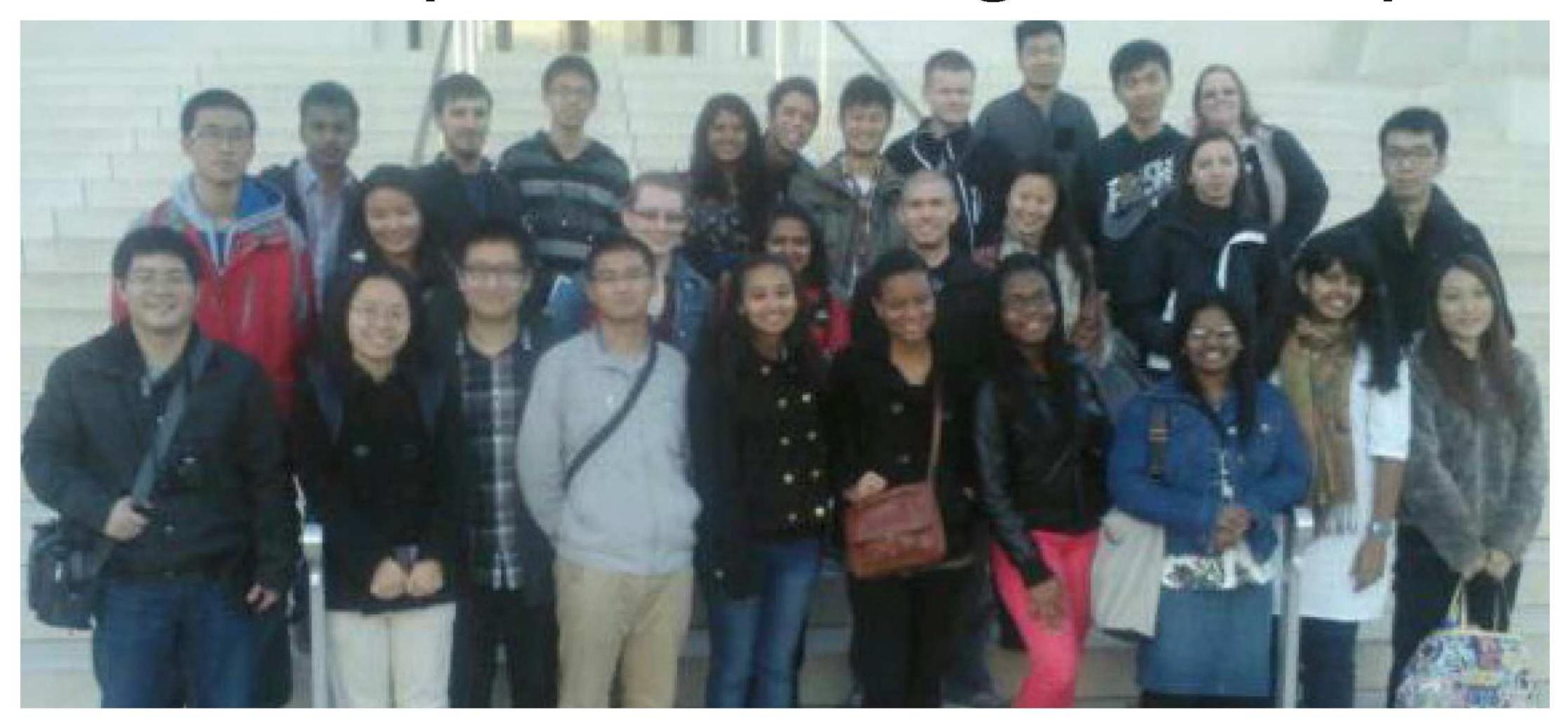
constructive feedback rather than wait for TA's to grade homework sessions. They recommend that professors actively take the effort to suggest supplemental resources such as relevant Khan Academy videos, reference periodicals and textbook choices; along with best practices like group study. Other topics discussed were the use of PowerPoint slides for lectures and how well they were utilized. Students want more freedom to prove learning rather than just the traditional exams - suggesting revolutionary ideas like a 30-minute discussion with the professor about topics covered throughout the semester instead of a final to gauge how much the students had really grasped. They also suggested that professors use only relevant notes in class – so that students don't need to cram everything from the textbooks and then not have more than half the material show up on the exam.

The discussion then shifted to what problem solving during class time with motivates us as students to learn and how

that can be tied up to academic performance. Peers, the level of preparedness of professors, their openness, how caring and empathetic they are, the stress on real world applications, the prospect of changing life status, doing something challenging, and meeting life goals. Some of the deliverables decided on at the forum were to come up with a scheme about real world applications, more detailed syllabi, to clarify expectations right at the beginning, more of a hands on approach to learning, to encourage discussion and communication, awareness of external resources, generalize TA standards, have more regular quizzes, varied options for examination, and similar standards for two professors teaching the same class.

If you would like to contribute to the discussion, be updated about more events like this, like SGA's Facebook page athttp://www. facebook.com/iitsga and visit their website at sga.iit.edu

Office of Spiritual Life organizes trip to Bahai Temple



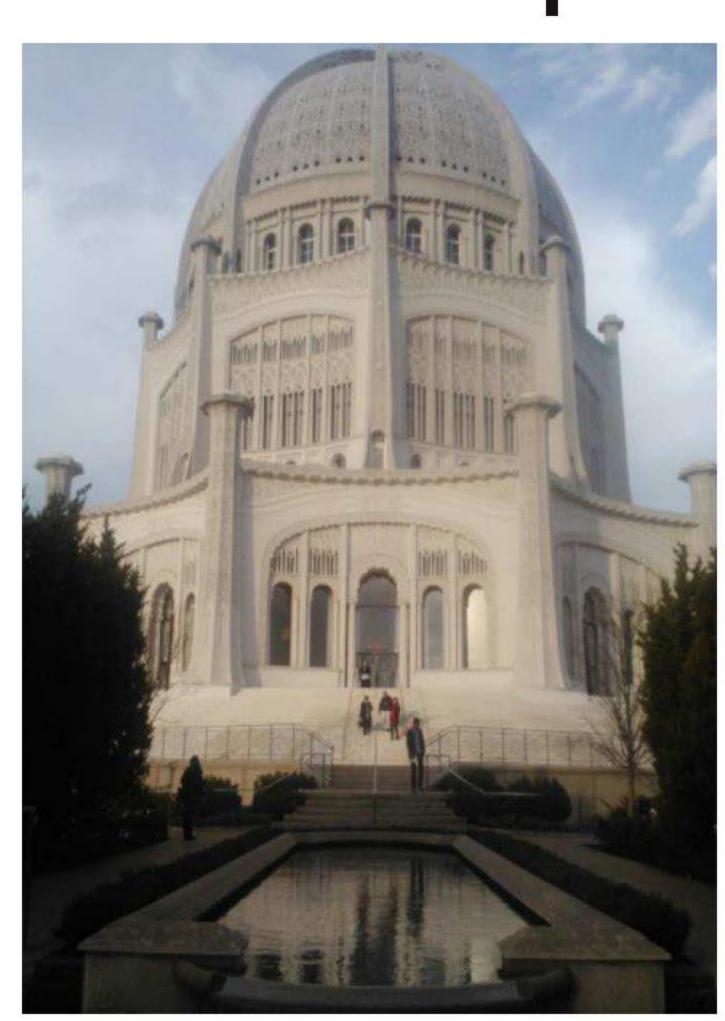


Photo by Lynne Meyer, Director Office of Spiritual LIfe

The Commons hosts Veteran's Day dinner for RTW Vet Center

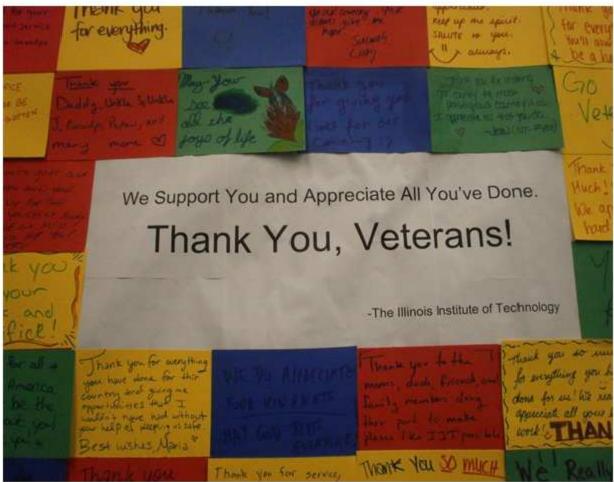
By Utsav Gandhi CAMPUS EDITOR

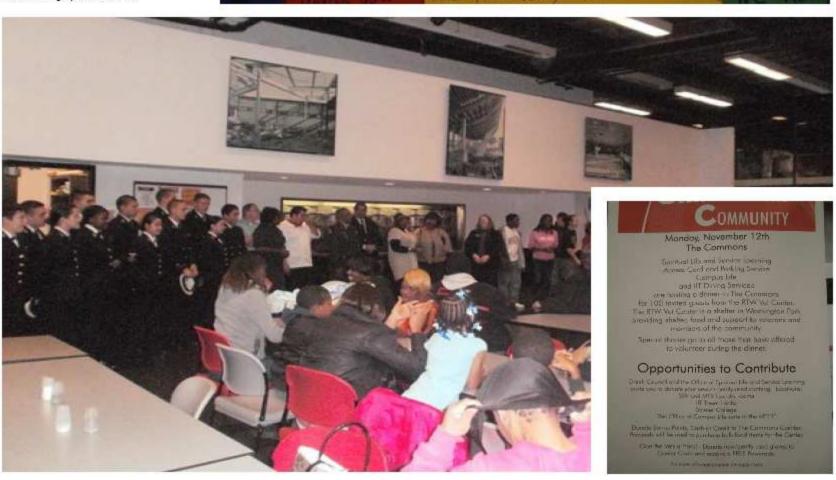
HT Dining Service, Spiritual Life and Service Learning, Access Card and Parking Service and Campus Life hosted a dinner in The Commons for over 200 invited guests from the RTW Vet Center on Monday, November 12th (Veteran's Day) from 7:30 - 8:30.

The Commons was a sight to behold as the guests, many of whom had never visited a sit-down restaurant before, thoroughly enjoyed the food and the hospitality provided by IIT. Volunteers from ROTC, IV, Greek Council and Vandercook College of Music, among others, played a huge role in spreading cheer and appreciation. The opportunity really made the volunteers reflect on what it means to give back to a community often overlooked but vital. to our society as a whole.

The RTW Vet Center is located in the Washington Park neighborhood at 5536 S. King Drive in Chicago, the RTW Vet Center originally started as a Veterans Service Organization (VSO) in the community with a mission of locating and identifying veterans and their families. When they began to feed veterans they could not just let someone go hungry because he/she was not a veteran. Then the children started coming and the rest is history. As a Veteran Service Organization, they are also under the mandate to promote patriotism among the general public and our service to all people allows them to keep their commitment to this part of our mission.

The Center now provides shelter, clothing and free hot meals 7 days a week, 3 times a day for the homeless veterans and anyone in need. In 2011 the Center provided over 15,000 meals to those in need. As a community center, they provide jobs and job training for unemployed and underemployed individuals.





Knapp Entrepreneurship Center helps to establish connections

By Taylor Harvey TECHNEWS WRITER

Imagine seeing a problem in your dorm, on-campus, or somewhere in your everyday life and you get an idea. You might think to yourself, where would I even start? Or,

what if this idea doesn't even make sense?

This is a natural line of questioning to walk down but, while it is up to you to come up with the solutions to everyday problems, it is up to the KEC (Knapp Entrepreneurship Center at IIT) to help you make it a reality.

The KEC not only has a seasoned.

entrepreneur at the helm in Nik Rokop, it also has connections to a wide range of entrepreneurs from all backgrounds and resources from plain old advice to funding to take your business to the next step.

Don't sit on your ideas, come to the KEC and figure out how to make them a reality. Learn more about the KEC@http://blogs. iit.edu/ent:epreneurship/or by contacting Nik Rokop via email: nrokop@stvart.if edu or by visiting hisoffice on the 13th floor of HT Tower.

More Sustainable Gift Ideas

Give a gift that will help a child be curious about the natural world. A trip to the zoo & gift store, ant or butterfly farm, science kits, cool plants

Give an experience!

Performance/event tickets, a camping trip, cooking classes, a hot air balloon ride

Give a service provided by you or a local business.

A massage, a dinner out, hire a chef in, dance lessons

Make something yourself! It often carries more meaning. (and a smaller environmental impact than mass-marketed products)

Cook or bake a gift Write a poem or story about the recipient Glaze some pottery

Give socially conscious gifts! Shop Fair Trade!

Put your money towards helping better the world:

Adopt a gorilla, giraffe or elephant in a loved onae's name

Adopt a whale, wolf or polar bear

Give a flock of chicks, a pig or llama to families living in subsistence communities

Adopt-an-acre of a rainforest

Brought to you by the Office of Campus Energy and Sustainability A modified list from http://www.aashe.org/blog/13-tips-sustainable-holiday-season

this is TechNews'

you missed out on the GLTZ & GLANCUR of print media

we're always looking for contributing writers

Wisit

http://tinyurl.com/bofq9ea

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Congratulations to the October Student Organization of the Month: Engineers Without Borders!

Does your student organization or department have an awesome program that should be part of the Freshman 15 next semester?

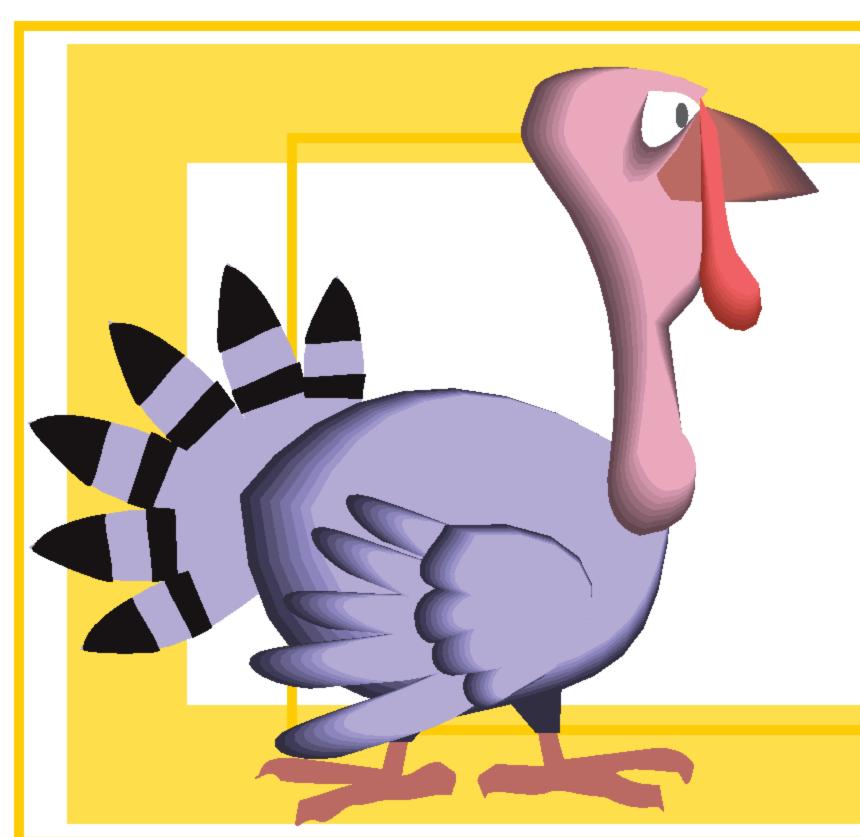
Submit it here: tinyurl.com/f15spring

The Offices of Campus Life and Residence and Greek Life are hiring! Applications for the following positions will be available on November 26:

- Orientation Leader
- Resident Assistant
- Peer Mentor
- Community Desk Assistant
- Welcome Week Leader
- Conference Housing Assistant



Get vour organization ready for the next involvement fair! Thursday, January 24 from 11:00 am—2:00 pm in the MTCC!



Have a great Thanksgiving Break!



Art Exhibition Review:

Steve McQueen at Art Institute

By M atti Scannell

This exhibit with the exception of two pieces is composed of moving images Most of the videos are found in darkened soundproof rooms scattered throughout the exhibit. Many of them are in black and white and the remaining have colors that are limited by a lack of lighting. For example, 'Illuminer' shows McQueen lying in Paris lit only by a television tuned into a French news program. Viewers are able to vaguely see McOusen toss and turn and pull up the comforter as sounds of gunfire accompany a French newscaster's commentary on American military training for the Iraq war. Some pieces seem purposefully difficult to watch. "End Credits" is a piece that has six hours of looping footage of declassified FBI documents with a fifteen-hour soundtrack The speaker has a Siri-like voice that numbs the listener in a manner not dissimilar to a visit to the DMV as the documents are read aloud. This is how you want to spend your Saturday, right?

One of the few parts of the exhibit that does not involve moving images, "Queen and Country" is one of the most recent works shown. MoQueen created the piece to commemorate 160 service men and women who lost their lives in Iraq. McQueen took images that were selected by the family members of the deceased and created stamps. The stamps were then placed on wooden panels that can be pulled out of a wooden box. McQueen considers this work

incomplete as Royal Mail in the UK has thus far refused to issue these images as stamps to commemorate the soldiers.

Overall, this exhibit gives the viewer a lot to think about as well as a brief aversion to light (read: this exhibit is dark) McQueen's work is thought provoking and worth a visit if you are in the mood to feel pensive. The Art Institute is free to Illinois residents on the first and accord Wednesdays of every month, \$12 for students, and free for Shirner College students.

This exhibit will run until Sunday January 6, 2013.



Art Exhibition Review:

'Triangulation' shows artists' personal connections to art

By Robin Babb TECHNEWS WRITER

Last Friday evening. a new exhibit opened at the Bridgeport art gallery and co-op Co-Prosperity Sphere.

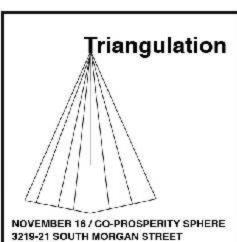
Called "Triangulation", the selection of works from ten artists ranges from more traditional art forms (painting and photography) to mixed media pieces and projections.

The concept binding all of the works together and inspiring the name of the exhibit — is an interesting one: each artist is asked to create a piece that creatively draws from two influential people in their past, one a past Co-Pro School artist, and the other a friend or family member from outside of Chicago. The resulting piece, then, is based on a foundation of the artist's past and community, a kind of "this is what I come from 's tatement.

While many of the works presented were fairly hard to appreciate without knowing what sources the artist was drawing from, some stood out regardless of the lack of context (Forgive me, as I won't be able

to attach artist's names to their pieces, since I foolishly forgot to take an exhibit guide.)

A projection piece in a secluded corner of the gallery interested me: it consists of four whitewashed paint cans, each of which has a different color projected onto it. This and several other pieces portray laughable irony and self-consciousness, perhaps themes that are inherent in the exhibit's concept.



3219-21 SOUTH MORGAN STREET

MADELEINE RAILEY/ DAVID BAHISTA/ DANIEL BRUCE /

ISANE DUFTINGTON: STEPHANIE DURKE: JESSICA COCHIAN/ DEINDRE COLGAN/AARON DELEHANTY/ MALEI HIII/A RAY EMERICK: ARTURO EVENING/JEH-NEERA/ MELINA GEORG/ SKYE CILKERSON/JESSICA HARVEY/ JERIAH HILDWIN/ RYAN JONES/ DRIAN KEANE/ RAGINA MAMOUL/JORDAN MARTINS/ RYAN PETER MILLER/ JUSTIN MIGHERRY/AUMED CZSEVER/JASON BORINETTE/ MARCO ROSICHELLY MUI NIM I SEN/ RAINE VASQUEZ/ VALENTINA VELLA/ ERIN WHITMAN/CHRISTOPHER T. WOOD/

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While the idea behind the exhibit is perhaps difficult for viewers to divine from the pieces themselves, it is doubtless an important personal exploration for each of the artists involved. The exhibit itself is very much worth seeing even if there are only a few clever pieces that clearly show the artists awareness of their background and their personal connection to art.

What's on Hannah Larson's playlist?

Tech November 20, 2012



What's on your playlist? Email ae@technewsiit.com to submit your own.

SPORTS

XC season ends, 2 runners qualify for nationals

sports@technewsiit.com

By Kira Vincent

STAFF WRITER

On November 3,, the men's and women's cross country teams gave it their all in the 2012 CCAC Championship Meet. Abby Jahn won the women's five kilometer race with a time of 17:33. Courtney Rouse was next across the line in a time of 17:45 for an eighth place finish. She was followed by Jordan Kelch in a time of 18:53. Anne Crotteau and Claudia Garcia were the next two across the lines for the 34th and 37th places in times of 19:45 and 20:08 respectively. Finishing out the 6th and 7th places were Natalie Kruit and Sara Glade in the 43rd and 44th places in times of 20:25 and 20:30 respectively. Every member of the team ran a personal record, and both Abby Jahn and Courtney Rouse qualified for the National NAIA race occurring on November 17.

The team placed 4th overall out of 12 teams. Zach Gates led the hawks through in their eight kilometer race in a time of 26:00 for 25th place, Phillip Cano and Ethan Montague finished 27th and 33rd in times of 26:09 and 26:34 respectively. Kenny Murphy was the next





hawk to cross the line in a time of 26:52 for 35th place. Landon Vowels finished out the top five for the team in a time of 27:33 for 41st place. Sixth and 7th place on the team were Andrew Montague and Jefferey Somerfield in 50th and 56th places overall with times of 28:07 and 28:28 respectively. The men placed 6th out 12 teams. The two national qualifiers are travelling to Washington State for the competition on November 17.

Photos courtesy of Kira Vincent

Premier League Review:

Sunderland fights to stay out of last place, Arsenal hits 19 points

By Nathan McMahon

STAFF WRITER

Per Mertesacker, Lukas Podolski, Olivier Giroud, Santi Carzola, and Theo Walcott all contributed to Arsenal's 5-2 thrashing of Tottenham this past weekend. Emmanuel Adebayor scored early against his former side, but a few minutes later he was sent off with a straight red for a horrific tackle. Garreth Bale also scored to no avail as Tottenham continue to drop on the table with 17 points. Arsenal is nearing the top four with 19 points.

Liverpool earned three points in a strong home showing with a 3-0 victory over Wigan Athletic. Luis Suarez scored a pair of

goals while Jose Enrique also scored in the Liverpool victory. Liverpool is continuing its long dimb out of the bottom of the table with 15 points while Wigan has just 11 points on

Manchester City absolutely hammered Aston Villa 5-0 with a goal from David Silva and two goals apiece from Sergio Aguero and Carlos Tevez. Aston Villa now is third from last with just 9 points. City now resides in the top spot with 28 points after their rivals, Manchester United, failed to get any points out of this weekend. United fell 1-0 to Norwich City with the lone goal coming from Anthony Pilkington. United sits with 27 points in second place while Norwich gets a big three points and now has 14 on the season.

Jonathan De Guzman and Miguel Michu both scored to give Swansea a 2-1 win over Newcastle who got their goal from Demba Ba. Newcastle continues its slide down the table with 14 points while Swansea moves up with 16 points. Southampton earned a rare three points in their dominant 3-1 victory over Queens Park Rangers who continue to disappoint. Southampton got its goals from Jason Puncheon and two from Rickie Lambert. QPR got its goal from David Hoilett. QPR is in the bottom spot with just four points while Southampton is four points above them with eight

The upsets continued this week when Reading beat Everton 2-1 with a pair of goals from Adam Le Fondre. Everton got

a goal from Steven Naismith. Reading is now out of the bottom three with nine points. Peter Odemwingie and Shane Long led West Brom to a 2-1 upset victory over Chelsea who got a goal from rising star Eden Hazard. West Brom continues to improve as they move into the top four with 23 points. Chelsea remains in the top four with 24 points.

Carlos Cuellar, Stephane Sessegnon, and Steven Fletcher all contributed a goal in Sunderland's 3-1 win over Fulham. Mladen Petric scored for Fulham in their loss as they drop in the table with 17 points. Sunderland now has ten points on the season as they fight to stay out of the bottom three.

U.S. Grand Prix:

Vettel close to title after winning pole

By Ciaran Kohli-Lynch

SPORTS EDITOR

German driver Sebastian Vettel edged one step closer to clinching his third F1 world championship on Saturday, taking pole position at the US Grand Prix. Vettel needs to

outscore Spaniard Fernando Alonso by over 15 points on Sunday to become the youngest ever winner of a hat-trick of driver's championships. If Vettel is able to win the race, in spite of his eighth-place starting spot Alonso must finish at least fourth to keep the competition alive going into the Brazilian Grand Prix next weekend.

The track in Austin, Texas is full of

cambers and undulations, providing little opportunity to overtake. Odds are firmly stacked in the favour of the German securing his victory Sunday then, considering his impressive form in practice, and the tribulations of Alonso, who was out-qualified by team-mate Felipe Massa.

Perhaps the most impressive performance of the day came from British driver

Lewis Hamilton who was able to split the much faster Red Bull cars, to start second on the grid Sunday. In other news, Vettel's Red Bull teammate Mark Webber was under investigation by stewards after missing a weight check-in on Saturday evening sion meet over three days at the Phoenix Invitational hosted by the University of Chicago.

University Calendar Events for the rest of the semester



Tuesday Nov. 20

1-1:30pm Study Abroad 101 @ Perlstein Hall Room 108

Monday Nov. 26

4:40pm-5:55pm Applied Math Colloquium @ Life Sciences 152 1-1:50pm BOG Committee Meeting @ MTCC Executive Conference Room

Tuesday Nov. 27

11am-12pm The Euro Crisis @ Hermann Hall Auditorium

1:00pm-1:45pm Union Board General Body Meeting & Birthday Party! @ MTCC Auditorium

9:15pm-10:30pm **SGA Senate** @ Pritzker Club Main Floor

Wednesday Nov. 28

1:00pm-1:45pm Union Board iMPACT Meeting @ UB Office MTCC Room 221 7pm-9pm Men's Basketball vs Clarke University @ Keating Sports Center

Thursday Nov. 29

12:50pm-1:40pm HACE/LIFE General Body Meeting @ Stuart Building 111

3:30pm-5:00pm John Zasadzinski: The Higgs Boson @ Life Sciences 111

7:30pm-10:20pm Intramural 4 v 4 Volleyball Tournament @ Keating Sports Center

6:30pm-9:00pm BCP-GSA Bowling Tournament @ The BOG

7pm-11pm Movie Night at the BOG @ The BOG

Friday Nov. 30

9:00am-5:00pm **Fall IPRO Day** @ Hermann Hall

12:45pm-1:45pm Science Demo Show - Flash, Bang, Cool! @ Wishnick Hall 113

2:30pm-6:00pm JFAS Weekly Meeting @ Idea Shop

9pm-11pm Comedian Melissa Villasenor @ The BOG

Saturday Dec. 1

9am-5pm Putnam Math Competition @ Engineering 1 Room 242

Sunday Dec. 2

5pm-10pm Intramural 5 v 5 Basketball Tournament @ Keating Sports Center

Monday-Friday Dec. 3-7

(Time Varies) Office of Campus Life Stress Free Zone @ Location Varies

Saturday Dec. 8

3pm-5pm Mens' Basketball vs Moody Bible College @ Keating Sports Center



Have a wonderful Winter Break!

