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TUESDAY

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TechNews

Student newspaper of Illinois Institute of Technology since 1928

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Election Week showcases SGA's accomplishments

By Karl Rybaltowski
EDITOR-IN-CHIEF

As part of an ongoing effort to raise awareness of student government on campus and its important role in advocating for the university's student body, IIT's Student Government Association (SGA) made all of last week SGA Week.

What could have been a single-day event surrounding the SGA Senate elections turned into a more comprehensive affair that not only got the message out and brought heightened visibility to SGA but also broke records in the process.

The university's student government has been a vocal advocate for students, and in recent years their achievements on behalf of the student body (and, at times, through work with other groups) include the return of evening hours at Center Court, ongoing work on a Foreign Language Program, the re-opening of The Bog, the publication of teacher evaluations, the extension of Galvin Library's hours of operation for students, and the introduction of the Student Discount Card.

In an effort to increase awareness of these and other projects that SGA has

undertaken on the behalf of students and to encourage further feedback from the student body, the executive board of SGA unveiled SGA Week, giving students several opportunities to interact directly with executive board members, offer ideas, and, of course, vote for the newest round of SGA senators.

SGA Week began with a "Lunch with SGA" event held on Monday, September 26. Students had the opportunity to communicate with each other, current SGA members, and those who were a part of student government in the past—all over a lunch of free pizza. Students discussed their ideas for change at IIT, and the "I want this to be..." cards were distributed to students as part of SGA's ongoing campaign of the same name. All one needs to do is finish that sentence, written on each card, and take a photograph of the card with the object in question.

Candidates running for SGA Senate were also present to meet potential voters and share their ideas for improving the university.

The second day of SGA Week may have been the biggest: the Senate elections took place, with polls open until early evening. 26 candidates representing a variety of colleges vied for Senate seats. When the polls closed,

630 students had voted—breaking the previous year's participation by almost 200 votes. "I voted" pins were distributed to those who voted (as well as more of the "I want to see..." cards) to show their involvement and publicize the election further. Even Baby Hawk, IIT's "mini-mascot," showed up to vote and entice other students to do so. Later that evening at the Senate meeting, the winners of the election were announced and sworn in.

A variety of views have been expressed by the newly-elected senators, and current SGA members are excited. "The new senators will bring new life to SGA with their myriad new ideas for how to change the school for the better and the energy they bring to Senate," said Kelly Lohr, SGA's Vice President of Communications.

Wednesday saw another "Lunch with SGA" event, where newly-elected senators met with their constituents, discussed their ideas and revealed some plans for how they would work with their fellow senators to bring those ideas to fruition.

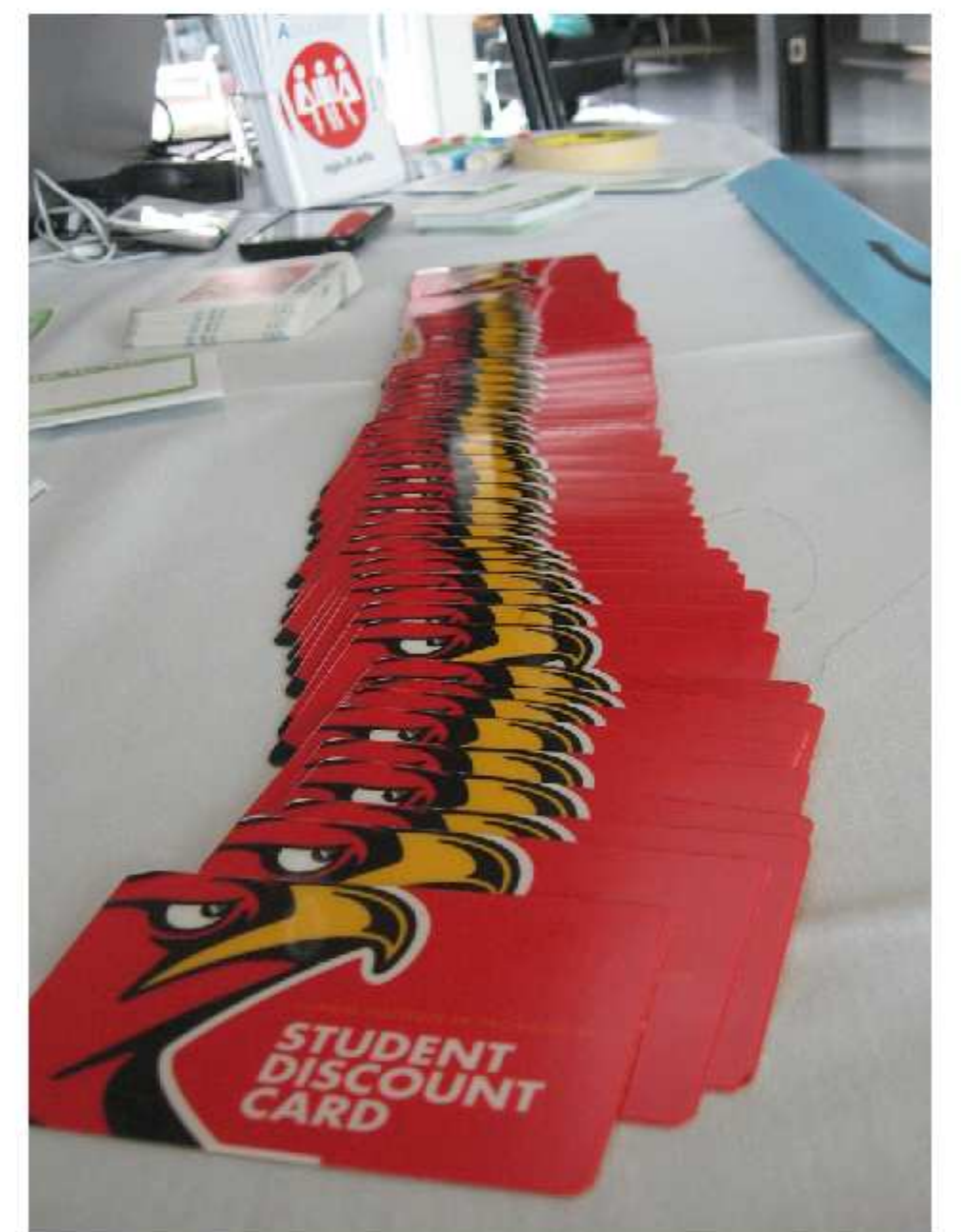
Thursday saw another pair of big events. During the day, SGA held its first Student Discount Fair. Vendors and restaurants participating in the Student Discount Card program came to campus and shared samples,

letting the student body see just how many local businesses (such as Connie's Pizza and Mangia Fresca) have signed on to the program and the new options students have to explore in areas like Bridgeport. In the evening, SGA held a Trivia Night in the BOG, where teams competed over knowledge, not just of IIT trivia but a variety of general knowledge questions thrown into the mix. As Lohr said, "The competition was fierce, but in the end Hashem Amara, Eric Barbour, Kamil

Bober, and Matthew Otten reigned supreme and were rewarded for their superior trivia knowledge with two gift cards of their choice."

Though not an official part of SGA week, Sunday was the day of the SGA Senate Retreat, where new senators spent the day at the Downtown Campus and were introduced in more detail to some of their responsibilities, SGA committees, and a number of ideas that SGA is currently working on.

In all, SGA members agreed that the week was a big success, publicizing not only the sheer amount of success the Student Discount Program has had and the openness of student government to feedback and participation, but SGA's advocacy for students in general.



Photos by Anna Lockhart & SGA

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ILLINOIS INSTITUTE
OF TECHNOLOGY

Occupy Chicago enters second week of protests

By Mike Purdy
DISTRIBUTION MANAGER

"We are the 99 percent," declared many voices in unison, as a crowd of roughly 150 participants marched throughout the streets of downtown Chicago on Saturday afternoon. This demonstration of political protest is one of many that have occurred over the past week in support of the movement formally known as Occupy Chicago.

An off-shoot of the original, ongoing "Occupy Wall Street" protests of New York City, Occupy Chicago has been gaining substantial momentum, along with an ever-increasing influx of new activists, funds, supplies, and most importantly, attention.

This 24/7 occupation is centered at the corner of Jackson and LaSalle, located outside of the Federal Reserve Bank in Chicago's financial district. As this movement enters its second week, now is the time to foster a greater awareness of what is happening both on our doorstep and throughout the nation as a whole.

This peaceful revolution began on September 17 in New York City, and thousands have gathered thus far to express their displeasure with the current state of the American government, namely corporate greed, economic inequality, and political corruption.

The protests have been targeting the top one percent of the United States' population, specifically those wealthy corporate owners and profiteers, in an effort to display the growing social and economic issues facing both a newly emerging generation of working-class citizens and those who have become the victims of an unfair system of greed and corruption.

Although the message may seem a bit ambiguous to those who would prefer one concrete mission statement, herein lies the beauty of it all - American citizens are finally standing up against a slew of capitalistic flaws, exposing a corporate agenda that has left the common man behind.

Up to this point, hundreds of protesters have been arrested, and there have been reports of police brutality as the intensity of the demonstrations builds daily. A strictly non-violent movement, Occupy Wall Street is showing not only the power of solidarity, but also exhibiting a surge in unity amongst the ordinary citizens of America as the movement is spreading like wildfire across the entire nation.

In Chicago, the message is no different; "We will gather in solidarity, exercising our constitutional rights while protesting American corporate politics until our voices are heard," they're saying.

From my observations, people of nearly all generations, ethnicities, and social backgrounds marched in harmony Saturday afternoon, proclaiming a wide variety of demands while working together to ensure a controlled, thoughtful procession through the city streets.

A high level of excitement and energy seemed to pierce through the frigid air as the crowd assembled in front of the Federal Reserve, where a makeshift base camp has been set up for those who are in it for the long haul.

Posters and chants ranged from statements such as "People over Profit" to "Banks got bailed out, we got sold out", and Guy Fawkes masks could be seen in abundance as a symbol of the potential revolutionary status of

this undertaking.

In light of the recent execution of Troy Davis, another prevailing topic of the protests was a campaign to end the death penalty. Along with their determined support of those fellow activists in New York, the people involved in Occupy Chicago appear to be well-informed and educated on what it is that they're ultimately standing for.

"We want to send a signal to Washington and the corporations that we want change," a protestor by the name of Babur explained. "Our politicians are working for the corporations... a lot of people are waking up to the situation."

As of now, there has been very little news coverage of the Occupy movements, but this is bound to change as more and more demonstrations are taking place and their magnitude is becoming more apparent. This is also not to mention the crucial utilization of social media networks including Facebook, Twitter, and YouTube in helping to get the word out and spread the message far and wide.

At this moment in our history, we are engaged in a revolution of sentiments with no clear end in sight. In nearly every region of the United States, from coast to coast, the actions of the Occupy movement are taking hold. Whether it is Occupy San Francisco, Occupy Miami, or Occupy Philadelphia, something big is happening, and it will not soon be diminished or forgotten. Hopefully once all of the smoke has cleared, we will emerge a stronger and more unified democracy - where we live in a tomorrow created by the people, for the people.

I encourage you to check out Occupy Chicago and maintain an awareness of the situation at occupychi.org



Photo by Mike Purdy

CERN experiment challenges relativity laws

By Chris Roberts
LAYOUT EDITOR

Something incredible, in the literal meaning of that word, happened two weeks ago.

An experiment at CERN, the world's largest particle physics laboratory, fired a beam of neutrinos through 450 miles of solid earth from Switzerland to a detector in Italy. That is the mundane part of the story.

The exciting part is that the beam reportedly traveled from point-A to point-B 60 nanoseconds faster than it should have.

You might say, "So what? Big deal?" Well, the big deal is that by "faster than it should have" I mean faster than the speed of light in a vacuum.

...I will repeat that. Scientists clocked neutrinos, particles with minuscule but detectable mass, traveling faster than light moves in a vacuum.

If its results are officially verified and reproduced, this experiment would mean that Albert Einstein's Special Theory of Relativity is flatly wrong. However, this single event flies in the face of decades of observations

and experimental data which support Special Relativity.

Basically, this is the physics equivalent to reading that Rick Perry and Michele Bachmann have eloped to Amsterdam to promote renewable energy and social tolerance; it is simply not supposed to happen.

What I find to be the most interesting part of this story is how researchers at CERN have reacted.

Rather than run shouting to the Nobel Prize Committee, they spent months reviewing the data, inspecting their equipment, accounting for the time it takes electricity to travel from the detector to their computers, and generally doing everything they could to find a mistake that would explain the results.

When no errors were detected, they made press releases stating that the experimental results were preliminary and asked the wider physics community to look into their data and attempt to reproduce their results.

This is a great example of scientific skepticism.

An experiment was conducted which appears to have contradicted a foundational rule

in our understanding of physics. No mistakes have been found.

Some might think this would justify throwing Relativity onto the ever-increasing pile of disproved theories, joining geocentrism and phlogiston.

However, scientific progress does not move that heedlessly. Adhering to the scientific method, no result is considered conclusive until others can verify and replicate it.

Did CERN scientists disprove Einstein? If they did, this will likely be remembered as one of the greatest discoveries of the past century.

Physics and history textbooks will have to be rewritten.

A new model for how the universe functions will need to be developed. However, the notion that Special Relativity is wrong, after countless experiments, including ones conducted at CERN, have supported the theory, seem nigh-impossible.

What is certain is that a mistake has been made. Whether that mistake was in the experiment or our understanding of physics remains to be seen.

SGA Senate Election Results

IIT STUDENT SENATE 2011-2012

ARMOUR

Lama Abu Amara
 Soonen Ahua
 Eyoel Asfaw
 Megan Christenson
 Utsav Gandhi
 Jaeide Jawahill
 Rani Shah

CSL

William Bafia
 Raghav Girijala
 Dor Karter
 Matthew Otten

STUART

Aleksandar Bogoevski
 Lucius Doxerie
 Ameena Payne

PSYCH

Russel Houser

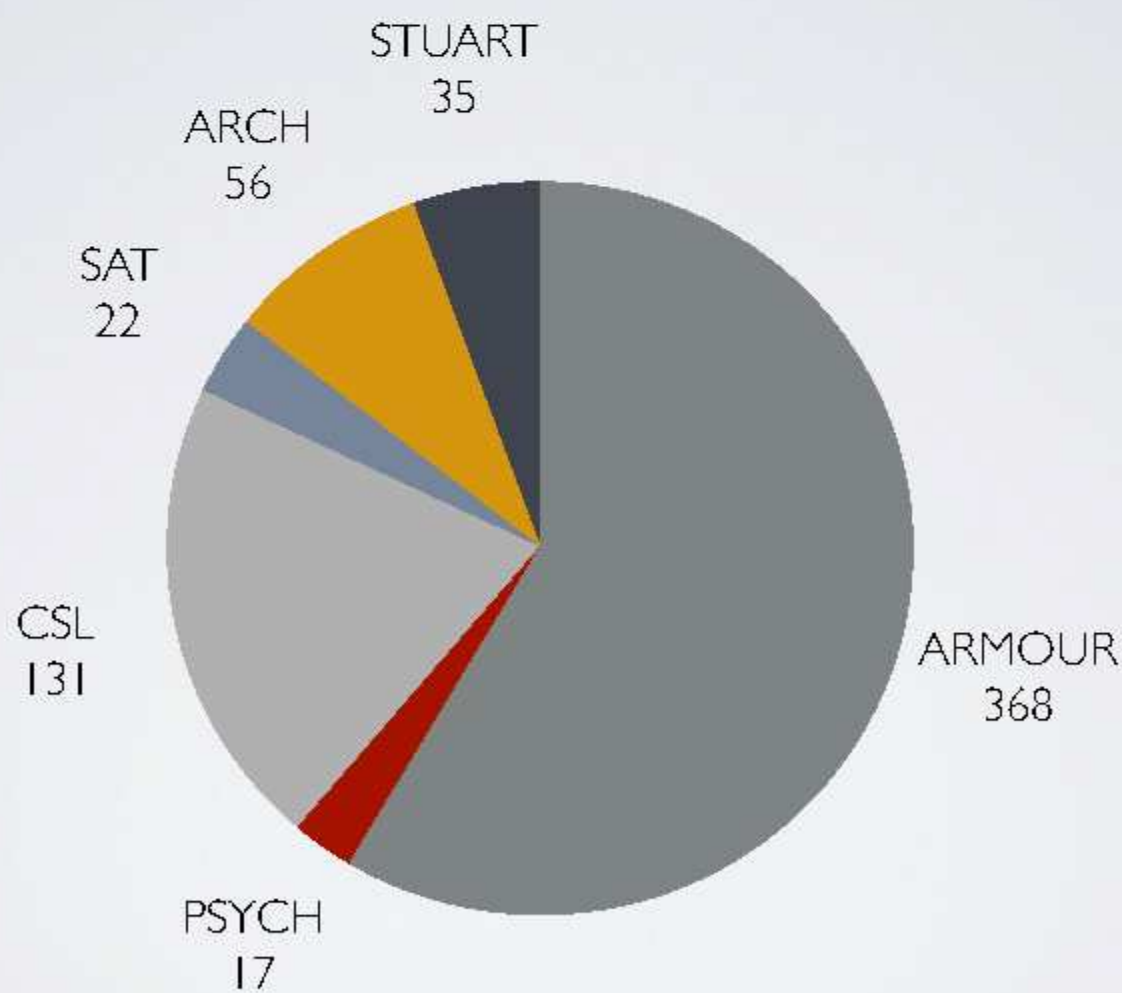
ARCH

Sarah Lim
 Johnathan Shillingford

SAT

Akarsh Jain

VOTING BY COLLEGE



A TOTAL OF **630** STUDENTS VOTED

CMC Fall Career Fair brings 160 corporations to campus

By Ryan Hynes
TECHNEWS WRITER

On Thursday, September 22nd, the Career Management Center hosted its annual Fall Career Fair.

This was the largest fair ever, which is remarkable in the light of prevailing economic conditions. The CMC put months of tireless effort into organizing this fair and attracting the best employers for IIT students. It was a significant improvement over the previous

Career Fairs in recent memory, in terms of both organization and participation from visiting recruiters.

The event itself was a tremendous success. Over 160 different corporations, from different industries like finance, marketing, IT, engineering, and government research institutions came to campus to meet with and recruit IIT students. Some of the firms represented, like kCura, traditionally has employed a large number of IIT alumni and are always looking to hire more IIT graduates.

To put all of this in perspective, IIT is one of the smaller schools in the Chicago Metro area, coming in around 7500 graduates and undergraduates students.

IIT's career fair however, is the largest in the region - bigger than the fairs put on by DePaul, Loyola, UIC, and The University of Chicago. All this means that IIT students have an even greater opportunity to impress employers and network.

The Fair was a good experience, even for the underclassmen, who got a taste of what it

means to actually go out and impress employers. It's all about going up to them and asking for opportunities and projecting yourself in a way that convinces them that you can be a significant addition to their organization.

If you missed the Fall Career Fair, don't panic. The CMC puts on a Spring Career Fair in February as well. This fall's fair was a great event and is indicative of IIT's reputation for producing alumni with both technical and professional skills that make them a valuable addition to any workplace.

Indian Ocean's Chicago performance supported by SGA VP

By Pranamee Samra
TECHNEWS WRITER

Indian music is world famous. The broad and exotic range of instruments and styles, influenced by the Indian "raga" (series of Indian musical notes on which a melody is made) is apparent in all the forms.

Indian Ocean is a group of musicians who are world class representatives of what Indian music has to offer.

Indian Ocean, as the name suggests, blends music from all the corners of India,

building a crescendo of amazing beats and mystifying atmospheres.

The drummer, Amit Ghosh, provided beats, especially with the Gajguli (an ancient instrument from West Bengal, India which looks like a small drum with 2 strings attached for rhythm modulations).

The Gajguli is a perfect touch for Indian folk songs. Susmit Sen, a stand out at their performances, is known for his unique way of playing the guitar, which is actually the base for the Indian touch for this group.

The latest addition to the group is

Himanshu Joshi on the vocal with Rahul Pan and Tuhean Chakraborty with the Indian tabla, but capable of performing with almost anything in the group. The best part of the show was the rising musical duet (jugalbandi) between Amit on his drums and Tuhean, who was at the beats on the guitar fretboard rather than his usual tabla.

For the ones who are oblivious to the group's activity on the music and entertainment front, Indian Ocean is known for its musical hits such as "Ma Reva", "Kandisa" and "Bande" (from the acclaimed movie Black Friday). Their

music is a symbol of the richness in Indian culture.

This musical evening was brought to Chicago by Association for India's Development (AID) with Mission India Foundation (MIF), and our very own Gokul Butal (SGA VP of Student Life at IIT) gave IIT students access to this event at discounted and affordable prices.

Thanks to him, IIT students got to be at the concert for a mere \$15 per ticket, meet with the band members, get some photographs taken together and dance and revel with the rhythm.



Photo by Pranamee Samra

BME department hosts lecture on nerve regeneration

By Utsav Gandhi
CAMPUS EDITOR

Kicking off the Engineering Themes lectureseries, with an emphasis on Health, was a visiting speaker from the University of Austin, Texas - B.F. Goodrich Endowed Professor in Materials Engineering, Caroline Schmidt, who addressed students, staff and guests on the 21st of September talking about her extensive research on neural tissue regeneration.

Armed with a PhD from the University of Illinois and having spent time at MIT as a Post-Doctoral Fellow, her expertise and seniority in the field was clearly evident in the passion with which she conveyed her thoughts - so much so that even for non-BME students, it was easy to understand the relevance of her research.

Injuries related to the spinal cord and peripheral nerves, certain types of cancer, traumatic accidents, and congenital defects

- all these could be factors wherein the body can not initiate and/or sustain natural nerve regeneration - lead to a great scope in the field of biomedical engineering to devise ways in which to assist the body to do so.

Usually, the way the peripheral nervous system responds to nerve injury is that the nerve endings - the axons - die off, while the Schwann cells remain. The neuron then sends out new signals to regenerate, which will lead to a painful neuroma on failing to reach their target.

To reestablish the pathway artificially, sewing may be used, depending on the extent of the injury and the age of the person.

In case of a large injury, the procedure is time consuming and costly, and Dr. Schmidt's lab works to develop alternatives - hollow PNS guidance conduits.

These look and feel like nerves - though we must note that on their own, conduits are not good enough, and a 28-day process is

needed where fibrin cables have to form over longer distances. The main concern while choosing the material for the conduits was that it would be non-immunogenic, could be modified, was FDA approved, non-adhesive and enzymatically degradable.

Getting the physical 'architecture' right was probably the most important factor considered in the research and development of these conduits - they needed to mimic nerve structure on both a micro- and sub-micro, scale.

To conclude, Dr. Schmidt presented her views on the BME department at IIT, derived from what she had seen during the day.

She said that it is increasingly becoming important for college engineering departments to build onto the past and look at the future at the same time - and the way to do that is to get alumni involved, along with a clear vision for the future.

She said that the BME department at

IIT (and this is true for all other departments as well) was unique in the way that due to our setting in a global city, we have the unassailable advantage to forge strong partnerships with nearby industry and research institutions, an advantage that her department, like many others, did not enjoy.

She also mentioned that developing PR is hugely influential in boosting the department's image - this includes, but is not limited to, sprucing up the website to make it more navigable and utilizing the connections the department has with the Pritzker Institute and BMES.

Dr. Schmidt has outlined the importance and her vision for the field as a whole as a response to a very pertinent question, "What is the future of bio medicine and biomedical engineering?" I encourage you to visit http://www.utexas.edu/utknw/2011/09/14/big_question_schmidt/ to gain an insight into this fascinating question.

Engineering themes surface on sidewalks

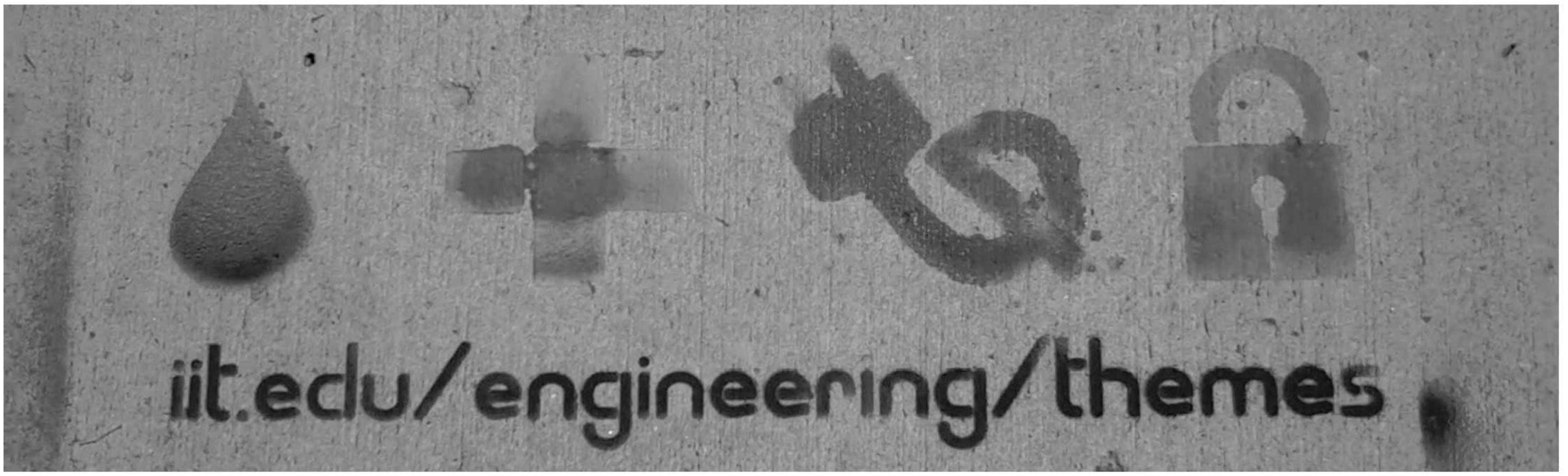


Photo courtesy of Armour College of Engineering

By Amy Henson & Lisa Stok

OFFICE OF COMMUNICATIONS
ARMOUR COLLEGE OF ENGINEERING

Have you seen these around campus and wondered what they stand for?

Here's the answer - the IIT Engineering Themes highlight issues in Water, Health, Energy, and Security through a series of activities and experiences.

"The themes are designed to give students a competitive edge and tangible experience in areas that have long-term global impact," says IIT Dean of Engineering Natacha DePaola. "The themes allow students to explore all facets of the issues - social, technical, and economic - so that when they graduate from IIT, they are already working on relevant and impactful solutions."

According to DePaola, employers know that IIT students are technically savvy, but they also seek employees who can manage

projects, work on a team, communicate, think quickly about the whole problem, and adapt to rapidly changing scenarios.

"These things are best learned outside of the classroom, so we are providing a wealth of opportunities for students to get the experience they need to be competitive," she says.

The IIT Engineering Themes offer:

- Team-intensive Engineering Projects with Project Management

- Meaningful Engineering Internships
- Panel Discussions and Career Panels
- Interactive Problem Solving
- Field Work and Site Visits
- Innovation and Design Projects
- Competitions with Presentation and Communication Components
- Leadership Pathways through Societies and Service

The themes also offer academic experience through theme-sponsored IPROs, technical electives, lecture series, forums, and

inspiring discussions with experts who are on the front line of innovation in each area.

"This initiative is meant to empower students, so we are asking them for constant input and ideas," she says. "The IIT Engineering Themes are the perfect way to bring ideas together and make it easy for students to get every ounce of exposure and experience possible during their time at IIT"

While students get involved in theme activities, behind the scenes Armour College of Engineering is partnering with progressive companies and alumni who see value in giving students these opportunities.

"By partnering with supporters who share our ambition, we can ensure that IIT students get the best opportunities for internships and employment. We have had great success with the launch this fall and you will be seeing even more exciting developments as we grow the IIT Engineering Themes."

How to Get Involved - Sign-up

Online for an Upcoming Event:

Oct. 4 - Security: Seminar by Professor Andy Longinow on strengthening courthouse security

Oct. 13 - Water: Luncheon with Debora Shore, Commissioner of the Metropolitan Water Reclamation District

Oct. 14 - Water: Adopt-a-Beach Day of Service

Oct. 20 - Security: Student Security Society meeting for all interested students

Oct. 21 - Health: Panel discussion on Diabetes, policy, and nutrition with experts Lori Andrews, Eric Brey, and Brit Burton-Freeman

Oct. 27 - Energy & Water: Site visit to The Plant a former meatpacking building, which is now Chicago's first vertical farm.

Find more information, sign-up, and submit ideas at iit.edu/engineering/themes or email them at engineering@iit.edu. Read TechNews for more information about the upcoming events!

Semester's first sustainability forum exciting, successful

By Brock Auerbach-Lynn

TECHNEWS WRITER

The first monthly Sustainability Forum hosted by IIT's Office of Campus Energy & Sustainability (OCES) this past Friday in the MTCC Ballroom was a resounding success. The event's theme focused on the interplay of global vs. local issues in sustainability, more specifically the trade-offs that businesses often face with expansion and global supply chains having significant environmental impacts.

A packed house of 105 attendees ranging from students and staff to community members and local businessmen were treated to a delectable organic lunch (even catering to the gluten-free crowd). Joseph Clair, Director of Campus Energy & Sustainability, got festivities going with a quick overview of sustainability-focused student groups on campus, recently

completed sustainability projects (the B-cycle project, compost facilities, wind turbine at Stuart Field) and presentation of an 'Excellence in Campus Sustainability' award to Jennifer Luttig-Komrosky, Director of Housing.

Professor Weslyne Ashton, who moderated the forum, gave a quick overview of the global vs. local debate bringing in her own diverse experiences in sustainability from India to the Caribbean. The two keynote speakers were Sharon Feigon, CEO of local car sharing company I-Go, and Tim Ryan, Project Manager & Business Development Executive for global audit and consulting firm KPMG.

Ms. Feigon gave a quick presentation on I-Go, focusing on their desire to serve the community and allow Chicagoans to live well without owning a car. She also discussed their plans to install a new solar-powered electric vehicle charging station on IIT's campus. They

hope to place two new electric cars at this location by the end of the year.

Mr. Ryan then gave the audience an overview of KPMG - a global audit, tax and advisory firm which, among other things, helps companies manage their sustainability reporting and decision making to take advantage of global opportunities while considering the social and environmental components of their decisions.

After the introductions, Prof. Ashton, led a spirited discussion, throwing questions at Ms. Feigon and Mr. Ryan regarding their company's strategic focus, operating decisions, social impacts and environmental externalities. Each speaker handled the questions well, outlining their company's focus and future plans, though the contrast between their local and global focus was easily observable.

The floor was then opened for audience members to submit questions to each

speaker. This fleshed out some of the more prescient points of the forum, including the trade-offs companies face between diversifying risk in their supply chains and focusing on global low-cost suppliers.

Furthermore, the idea that access to a wealth of global information allows companies to make more efficient choices in terms of low-cost production was weighed against the fact that these global supply chains are longer, riskier and more environmentally damaging. The concluding remarks from both speakers summed up how each company is striving to meet the needs of local markets while still considering sustainability on a global scale.

The thought-provoking discussion, great company and amazing food left everyone in a good mood that Friday afternoon and looking forward to the next Sustainability Forum on October 28, 2011.

Kilpatrick Lecture: IIT welcomes Dr. George Whitesides

By Utsav Gandhi

CAMPUS EDITOR

"Whitesides's contributions to science range into biology, engineering, physiology, materials science, physics, and especially these days, nanotechnology. Other scientists, government leaders, inventors, and investors worldwide want to hear from him." - Smithsonian Magazine

Dr. George Whitesides presented this year's annual Kilpatrick Lecture and thereafter led a panel discussion on Friday, September 23.

The theme this year, keeping in tune with the Homecoming Renaissance Theme, was "Reinventing Chemistry."

Dr. Whitesides is a Member of the National Academy of Sciences, the National Academy of Engineering; a Fellow of the American Association for the Advancement of Science, and the American Academy of Arts

and Sciences; along with being the co-author of more than 1,100 articles, #1 on Hirsh Index of living chemists; and the holder of more than 100 patents.

He has also served as an advisor to the National Science Foundation, NASA, Department of Defense, and NRC. As you can guess, there was significant interest in hearing him speak - it's not every day that IIT plays hosts to such extraordinary achievers.

Dr. Whitesides stressed on the fact that research universities have an obligation to fulfill - to the government, to the general public, to their students and to the profession in general. The big problems plaguing science and today's world in general, as well as their solutions, are in the field of energy, healthcare, globalization and robotics.

There is a great need to reinvent research, development and education in general at our colleges and universities if we are to

rise to cope with these problems. In a world where society is more excited about Facebook reinventing itself than advances in science, how do we achieve that?

Therein comes in the fundamental importance of projecting an image interesting enough to excite people. He gave the illustrating example that if one day at a social gathering he was to start talking about his initiative Diagnostics for All as "a nonprofit enterprise to provide low-cost, easy to use postage-stamp-sized diagnostics tools to be used onsite in developing countries" people will give him confused stares and run the other way - but if he said he was attempting to make advances in the quality of life of people in developing countries, they were more likely to be interested, hang around, and talk to him about it.

He commented that today's education is using textbooks which are designed to sell, not engage students in research - and

therein lies our stumbling block towards the goal of reinventing chemistry. If we can excite and inspire students to have awareness for tomorrow's problems and how science and engineering can help solve them, we are more likely to find the solutions to them soon.

At the end of the reception he held after the panel discussion, this editor had an enlightening conversation with him regarding how engineering can help solve the persisting problem of unorganized growth that megacities such as Mumbai, India are facing.

It was a great feeling to know that IIT's small size allows students the rare opportunities to talk to such distinguished achievers personally and take away valuable lessons outside the classroom.

The Kilpatrick Lecture will be posted online soon. Please visit the Department of Chemistry's webpage or email the office for more information.

Homecoming Carnival: Renaissance Style!



University Calendar



What's up on campus?

Tuesday 10/4

Who We Are and What We Do 2011

CS Department

Stuart Building Room 238

12:45 p.m. - 1:45 p.m.

Undergrads and first and second-year graduate students: Are you interested in working with computer science faculty on their research? Find out what we're doing by coming to one of our "Who We Are and What We Do" talks. Talks will be in Stuart Building with remote live viewing on IIT/V (channel TBA). Each talk will be broken up into four sessions. Researchers have 15 minutes each to give a bird's eye view of their work. Come to one talk or stay for the whole session. Either way, be prepared to be surprised at the range of innovative, thought-provoking work being done in computer science at IIT. If you can't wait or can't attend, check out last year's talks at IIT's YouTube channel.

Wednesday 10/5

Emulsions - A Paradigm Shift

ChBE Department

Perlstein Hall Auditorium

3:15 p.m. - 4:30 p.m.

Seminar by Lenore L. Dai, Associate Professor and Program Chair of Chemical Engineering, Arizona State University

Monday 10/10

Fall Break: No classes!

Tuesday 10/11

Creating a Quality Resume

Career Management Center

MTCC Ballroom

12:50 p.m. - 1:50 p.m.

Thursday 10/13

IPRO @ IIT: Fueling Innovation

Chicago Ideas Week

440 S Dearborn, Chicago

10:00 a.m. - 3:00 p.m.

IIT is proud to be a part of Chicago Ideas Week, a series of events that will bring the world's top speakers together with Chicago's best thinkers to create an ecosystem of innovation, exploration, and intellectual recreation. Join us in the Idea Shop for "IPRO @ IIT Fueling Innovation," a unique and interactive learning experience that highlights innovative and interdisciplinary project work addressing real world problems such as "Clean Water" and "World Hunger" through IIT's Interprofessional Projects Program (IPRO).

Friday 10/14

90's Party

Housing and Residential Services

MTCC Ballroom

8:00 p.m.

Come out for a blast back into the 90's. Come meet students from five other universities while wearing 90's clothing and dancing to 90's songs!

Saturday 10/15

Pumpkin Launch!

Biomedical Engineering Society

Ed Glancy Field

1:00 p.m.

Build your own pumpkin launchers and compete with teams across IIT! Free food will be provided. For rules and registration, visit: http://www.iit.edu/student_affairs/pdfs/pumpkin_rules_2011.pdf Return completed forms to the Dean of Students, MTCC 209

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Wilco's new album delivers

By **Ryan Kamphuis**
A&E EDITOR

Chicago's own Wilco have been playing their brand of experimental alternative rock for over 15 years now. This past week, Wilco released their eighth studio album, *The Whole Love*. *The Whole Love* is a significant album for Wilco, being the first album released on the band's newly formed dBpm record label and the first album the band recorded in their secluded practice loft.

When listening to *The Whole Love*, it becomes clear that this album makes a departure from Wilco's past two releases. *The Whole Love* is much more experimental than recent albums, and harkens back to Wilco's earlier efforts such as *Yankee Hotel Foxtrot*. While the last few albums by Wilco have been good, they seemed to have lost sight of the experimental style that they are known for and excel at, churning out what could almost be called generic alternative rock.

This dramatic departure is clear with the very first track on the album. The track, *Art of Almost*, begins with a catchy drum and synthesizer beat that transitions into a fabulous string crescendo, and Jeff Tweedy's scratchy, nasal singing. The whole song is daring. It tries

to do things that Wilco hasn't tried before, and is a bold proclamation that this whole album is going to be something new.

That feeling doesn't leave as the album progresses. Each song has a new feel to it compared to Wilco's earlier work, even the tracks that go back to the folk-rock style of Uncle Tupelo, the band that morphed into Wilco. The album closes with the track *One Sunday Morning (Song for Jane Smiley's Boyfriend)*, a twelve-minute-long song that serves as the perfect ending to the album. While the track doesn't try to do as many new things as the earlier tracks on the album, the song still is epic and unmistakably Wilco. Making a twelve-minute-long song is quite ambitious and often leads to failure, but Wilco pulled it off. The song doesn't feel lacking, and flows throughout. It has grown to become one of my favorite Wilco tracks.

Overall, *The Whole Love* is clearly the best of Wilco's recent releases. It returns Wilco to their experimental roots, and is constantly changing as it tries new things. It sets the mood for an exciting future for Wilco, one where they return to constantly changing what alternative rock is. Wilco is best when pushing the envelope and casting off convention, and it is exciting to see them doing that again.

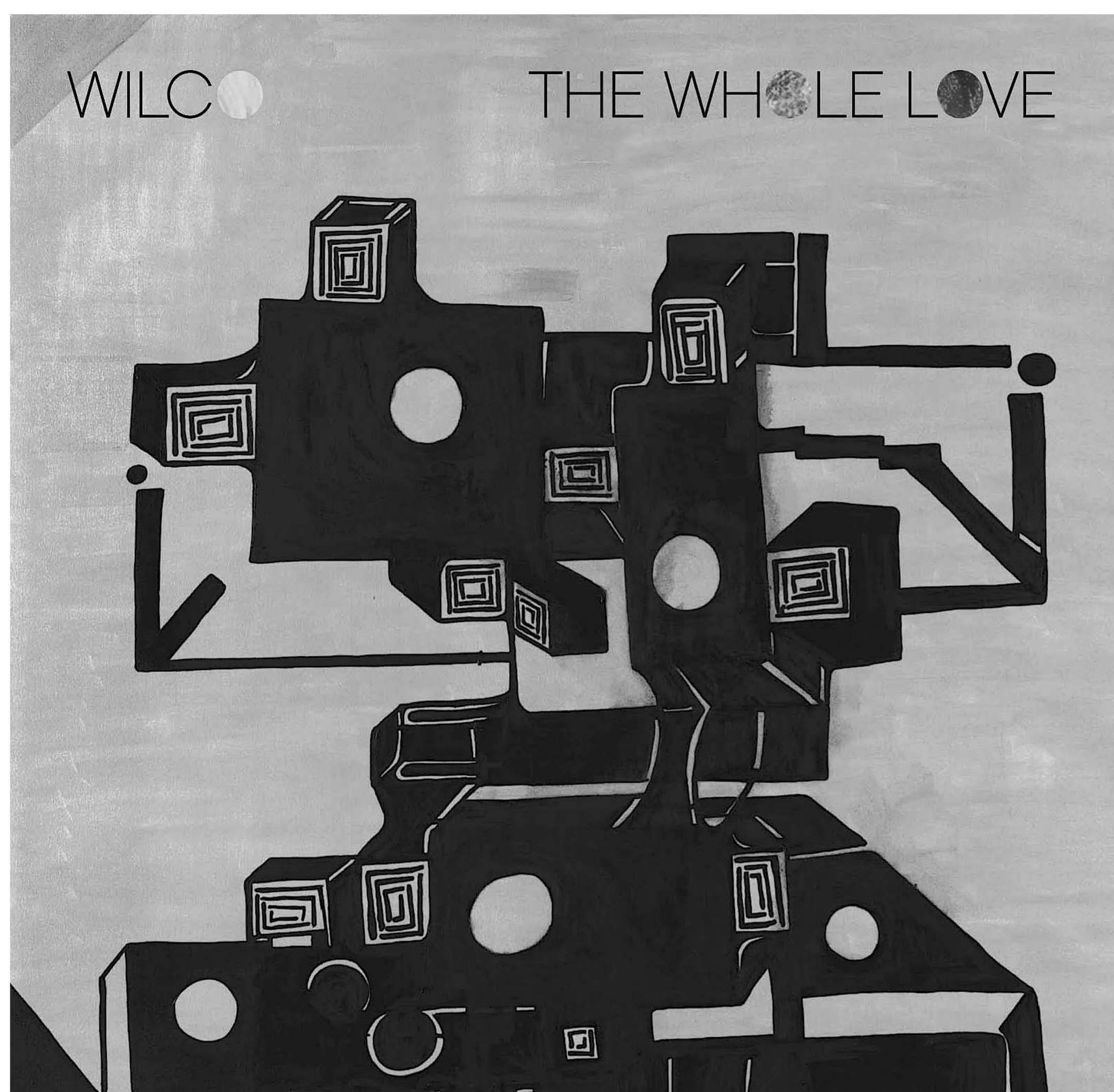


Image courtesy of weallwantsomeone.org

Warhammer 40k grim, decent video game

By **Erik Johnson**
TECHNEWS WRITER

It's always been my dream to be a genetically engineered Space Marine, firing a near infinite stream of bullets into a horde of space Orks. So when I played the demo for *Warhammer 40,000: Space Marine* I found myself overwhelmed with indescribable joy. In fact, I freely admit to emitting at least three loud fangirl squeals. These weren't your average fangirl squeals, either - on a scale from a Naruto on Ice show to Harry Potter playing tonsil hockey with Captain Picard, my squeals were well beyond your favorite Harry/Picard slashfic. The demo was, in a word, perfect. The game ran beautifully, the action and story was perfectly paced, and it left me twitching on the floor, begging for more Space Marine on Ork action.

Things were different when I played the full game. *Space Marine* had changed. I knew it wasn't me - it had to be the game! It just wasn't anywhere near as enjoyable as it had been previously. Now, before continuing, I think it's worth mentioning that I'm a huge fan of the Warhammer franchise. I have spent hours upon

hours painting miniature figurines, I've played through the Dawn of War series, and I won't deny recording audio fanfics to supplement my Warhammer tabletop games. As far as I'm concerned, the Warhammer universe is pretty darn awesome. It's so grungy and melodramatic and, quite frankly, it's hard not to love a franchise that claims that "in the grim darkness of the 41st millennium, there is only war!"

Relic's *Space Marine* brings the Warhammer universe to console and PC as a 3rd person shooter with an emphasis on intense action featuring hordes of enemies and tons of explosions. It's the first of its kind for the Warhammer franchise and Relic did an excellent job translating the aesthetics from their RTS Warhammer titles to the realm of blockbuster titles such as *Gears of War*. In fact, comparisons to Epic's fist bumping frat-boy shooter have been a common theme throughout the development of *Space Marine*. These are unfortunate for a few reasons, particularly in that the Warhammer universe far predates *Gears* and the games really play quite differently.

While the player will spend most of his time in *Gears of War* ducking into cover and pumping enemies full of a few clips worth of bullets, *Space Marine* ensures the

player is wholly immersed in the role of the titular character. During play, one feels almost unstoppable. Most encounters possess a similar rhythm of running at the enemy while shooting, then beating them to death with weapons ranging from giant hammers to chainsaw swords (note: these "chainswords" also predate *Gears of War*). Additionally, instead of playing to the new standard of regenerative health, the game includes an excellent healing mechanic - the player gains health by stunning and then executing enemies.

While this rhythm of play is fun and immensely satisfying - I've never felt quite so badass - it gets extremely repetitive. *Space Marine* is an entirely linear corridor shooter and each encounter is essentially the same. This might be okay if there was a stimulating plot to back up the repetitive gameplay, but there isn't. The twists and climax can be seen at nearly the outset of the game, even if one isn't remotely familiar with the Warhammer universe.

Space Marine does at least look good. The environments are generally cool looking, albeit not particularly unique. When the game does feature the future-gothic architecture of Warhammer, it is definitely awe inspiring. The animations are also fantastic, and the variety of

the aforementioned execution moves is totally cool. Relic, a traditionally excellent developer, also packs in high performance to complement the great graphics.

There is a multiplayer mechanic available, although as of this article it is relatively unpleasant. There's no server browser, and it runs off of a forced matchmaking system. This might be okay on console, but it's not cool on PC. Most of the games I've played have been unplayably laggy. In the few multiplayer matches that have worked, the gameplay doesn't amount to much more than stand around and shoot at the other players until they die. Supposedly, a cooperative "horde" mode is in the works, which might add some replay value.

Space Marine isn't a bad game, but it's also not an amazing game. For 40-50 bucks, it's about an 8-10 hour experience, not including multiplayer. It's fun, but can get repetitive, particularly if it is played in large chunks. Really, the best part of the whole thing is seeing the Warhammer universe rendered in glorious, shiny 3D. It's cool to see such a unique and influential setting in a new light. In short, this is a game that is worth picking up - just not if one is short on cash. It'll also be a lot more meaningful if one is familiar with the Warhammer franchise.



Image courtesy of grandadventurescomics.com

The First Day of the Rest of My Life

By Adin Goings
ART EDITOR



数独

The word Sudoku, above, is actually the abbreviation of Suujiwa dokushinnikagiru, meaning "the digits must be single" or "the digits are limited to one occurrence."

Source: Wikipedia

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Hawks glide through tricky run of fixtures

By Ciaran Kohli-Lynch
STAFF WRITER

After a busy period of fixtures, the Men's Soccer Team commenced their defense of the Chicagoland Collegiate Athletics Conference regular season this week with two well-earned victories against tricky opponents. The Hawks started a run of four games in two weeks on September 20 against 22nd-ranked Ashford University of Iowa, with the team conceding a late goal to lose the game 2-1.

Despite the result, the performance was promising, with the Hawks dominating large periods of the game and senior winger Graeme Port doing particularly well to turn in the box and equalize after Ashford had taken an early lead.

Unfortunately, while pressing for a winning goal, IIT were left exposed defensively and in the 83rd minute Javier Ramirez of Ashford took full advantage, putting the game out of reach of the Scarlet Hawks.

Thankfully, the concentrated nature of the college soccer season gave IIT the chance to bounce back almost immediately on Saturday, September 23 against Davenport University. In front of a large and energetic Homecoming crowd the Hawks battled fiercely to win 2-1 with seconds left in second overtime. After going down 1-0 to a Stuart Collins strike in the 61st minute, Liam Barrett showed strength and balance to turn in the box before being brought down cynically.

Graeme Port stepped up to take the resulting penalty, equalizing the scoring and increasing his team-leading goal tally for the season. The game was tied after 90 minutes and overtime ensued. After both teams missed a number of opportunities to score a golden goal and end the match, Liam Barrett connected with a Graeme Port corner with little over a minute remaining on the clock, sending the home crowd into raptures.

This victory in the Hawks' last out-of-conference match left the team in a confident mood going into the regular conference

season. A trip to Cardinal Stritch was first on this schedule and the Hawks stormed into a 3-0 lead after just 20 minutes in the Wisconsin fog. Graeme Port slotted home a penalty in the 5th minute and was followed onto the score-sheet by Robert Ritchie-Smith minutes later.

Liam Barrett would then go on to add to the tally before Cardinal gave themselves a lifeline in the 26th minute with a breakaway goal. The Hawks went on to score two more times in the second half, through a Ciaran Kohli-Lynch volley and a great strike from outside the area by Robert Ritchie-Smith, with the game ending 5-3.

Next up for the team was on form rivals Olivet Nazarene on Saturday, October 1. An all-round impressive display by the Hawks saw them dominate possession for large periods of the first half and they justly went 1-0 up early on when Robert Ritchie-Smith struck home from 30 yards, sending an unstoppable drive rattling off the woodwork and into the back of the net. Liam Barrett doubled the difference towards the end of the first half after connecting with a well-placed cross by Robert Rixer (the famous Filipino soccer star).

Despite the Hawks' dominance, Olivet fought their way back into the match in the second half, forcing goalkeeper Jared Svaldi into a number of terrific reflex saves. They were unable, however, to capitalize on these opportunities and Liam Barrett completed the scoring late in the match to kill off Olivet's resurgence.

After some terrific build-up play, Robert Rixer showed all of the agility, poise, pace and precision that has earned him the nickname, 'The Manila Lotus' in his adopted homeland of the Philippines, to lay an inch-perfect pass back to Barrett who converted emphatically from 10 yards.

Overall it has been a successful run of games for the Hawks, who will now face the University of Saint Francis at home this coming Tuesday at 7 p.m.

With a 2-0-0 record in conference,

the Hawks are looking to replicate the form that saw them go 9-1-0 in the CCAC last year and propelled them to the playoff final.

As Senior midfielder Guilherme Nunes stated: "The team is playing with confi-

dence and style. If we can stay solid at the back, turn up for practice and on top of this strong foundation continue to play sleek, sexy soccer, there is no telling where this season will take us."



Photo by Sebastian Morales Prado

Lady Hawks take 4th in Forrester

By Melanie Koto
STAFF WRITER

With Homecoming fever in the air at IIT, the Scarlet Hawks Cross Country teams travelled out to Libertyville, IL to compete in the 13th annual Forester Invitational.

The weather had picked up nicely after a cold week, and both the Men's and Women's teams brought their game to compete for the Scarlet Hawks' pride.

In the Women's 5k, freshman Courtney Rouse finished top for the Hawks, taking 11th place overall with a final time of 19:42.0.

Sophomore Jordan Kelch also had a strong finish, coming in 22nd with a final time of 20:54.0. Kira Vincent (junior) finished 28th (20:59.0), followed closely by senior Maddy Jensen (30th, 21:07.0).

Also finishing in top spots were freshman Ann Crotteau (33rd, 21:15.0), and junior Claudia Garcia (36th 21:19.00). The Ladies team finished 4th overall, with a total of 98 team points.

For the Men's 8k race, junior Zach Gates earned top points for the team finishing 13th with a time of 28:31.0.

Not far behind him was sophomore Phil Cano (17th, 28:37.0), junior Kenny Murphy (19th, 28:41.0 and senior Wes Villaobos (20th, 28:49.0).

Senior Phil Theisen finished 22nd overall for the team (28:56.0), while sophomores Andrew, and Ethan Montague finished 26th and 29th respectively (29:08.7 and 29:15.0).

Also finishing in high ranks were senior Brock Williams (32nd 29:18.0) and junior Derek Burge-Beckley (35th, 29:22.0).

Women's volleyball hit .500

By Kayla Heller
STAFF WRITER

The Illinois Tech Women's Volleyball team has had a game-packed two weeks, with the team managing to come out of it with a 7-2 record, bringing them to an overall record of 12-12 and a conference record of 3-3.

The Hawks started off their nine-game streak with a loss against St. Xavier University in 3 games (17-25, 10-25, 14-25).

Senior Kayla Heller led the Hawks with 6 kills and a .267 hitting percentage, while Freshman Shea Manley added 4 kills. Sophomore Brittany Mead also contributed 13 digs in the loss.

The Lady Hawks then took on Cardinal Stritch University two days later. After a fierce back and forth battle, the Hawks walked away with a conference win (23-25, 26-24, 23-25, 25-18, 15-11). Sophomore Kate Kendall had a double-double for the Hawks, putting down 18 kills and posting up 10 kills.

Heller added 15 kills and a .444 hitting percentage, while Junior Rebecca Bograd dished out an impressive 57 assists in the match.

The girls had a match the next day and easily defeated Lawrence Tech in 3 games (25-17, 25-15, 25-15). Kendall led the Hawks with 9 kills, while Heller chipped in 7 kills and 4 blocks. Bograd also had 28 set assists in the win.

The following week, the team traveled to Indiana to take on Calumet College of St. Joseph. The girls easily took the match in 3 games (25-12, 25-21, 25-10). Kendall led the Hawks once again with 14 kills and an impressive .591 hitting percentage. Sophomore Rebecca Wilson also had 9 kills and 2 blocks in the match.

The Hawks then faced conference leaders Trinity Christian College on Thursday. It was a tough battle, but Trinity Christian

managed to give the Hawks their third loss in conference in 4 games (17-25, 25-22, 13-25, 23-25).

Kendall had another double-double in the match, leading the Hawks with 22 kills and 17 digs. Heller also chipped in 13 kills, while Bograd handed out 43 assists.

The team then traveled to Adrian, Michigan to compete in the Siena Heights Tournament over the weekend.

The Hawks came ready to compete and walked away going 4-0 in the tournament. The first win came against Rochester College, who the Hawks went to 4 games with (25-21, 25-15, 20-25, 25-18).

Wilson led the team with 13 kills while Heller added 10 kills and 4 blocks. Mead also chipped in 16 digs in the match. The next game was against Defiance College.

The Hawks stole the show and finished them in three games (25-14, 25-17, 25-18). Heller led the Hawks with 14 kills and a .571 hitting percentage, while Kendall added 13 of her own. Mead also had an impressive 6 aces in the win.

The next day in the tournament, the Hawks started off playing the host team, Siena Heights. The girls took control of the match early and defeated them in 3 games (25-17, 26-24, 25-18). Kendall had 15 kills and 6 digs in the match, while Junior Mariska Vandenberg had 7 kills. Manley also added 2 aces and 16 digs in the win.

The last game of the match saw the Hawks taking on Alma College. The girls, again, defeated the team in a three game match (25-13, 25-23, 25-16). Kendall had 8 kills and 4 service aces in the win while Sophomore Roma Mirutenko chipped in 6 aces.

The Hawks will travel to Olivet Nazarene University Tuesday (October 4) to take on the Tigers. They will then bring it back

home on Thursday (October 6) to take on Purdue University Calumet at Keating Sports Center at 7 p.m. Be sure to come out and support your Hawks!



Photo by Sebastian Morales Prado

Women's soccer goes 1-3 over past two weeks

By Graeme Port
SPORTS EDITOR

The Scarlet Hawks Women's Soccer team have had an interesting past couple of weeks, with the team just losing out in the first game they played during the time period, comfortably winning the second, turning in a disappointing performance in the third, and turning in a phenomenal performance in the fourth, albeit in a losing effort against the 9th-ranked team in the nation.

The Hawks lost their first game in the four-game stretch on Wednesday September 21 at Taylor University 2-1. The home team took the lead in the 18th minute when Taylor Hale opened the scoring. The Hawks bounced back

immediately, however, when Lauren Capuano scored her 6th goal of the season just a minute later.

Unfortunately, with just minutes left in the first half, the home team grabbed what turned out to be the eventual game winner, with the second half ending scoreless.

For the next game in the stretch, the Hawks returned to Stuart Field on Saturday, September 24, to face Benedictine University. The game turned out to be a stroll in the park for the Women's team with the Ladies recording a commanding 8-1 victory.

Goals on the day were scored by: Emily Tilton (2), Diana Otero (2), Noel Deis, Kay Durbin, Marit Tundal, and Heather Bickerton.

Saturday's impressive performance

was followed by a disappointing 2-1 opening day conference loss on Tuesday, September 27, at Cardinal Stritch University. The Hawks ended the game in a 1-1 tie, with Marit Tundal grabbing the teams goal, but the home team claimed the points in the first minute of overtime, when Rachelle Broome converted.

After the disappointing midweek loss, the Women's team bounced back in impressive style on Saturday afternoon as they turned in arguably their best performance of the season in a 2-1 loss against the #9 team in the nation, Olivet Nazarene University.

The Hawks got off to the worst possible start when the visitors took the lead in the first minute of the game from a set piece, following an unfortunate goalkeeping error.

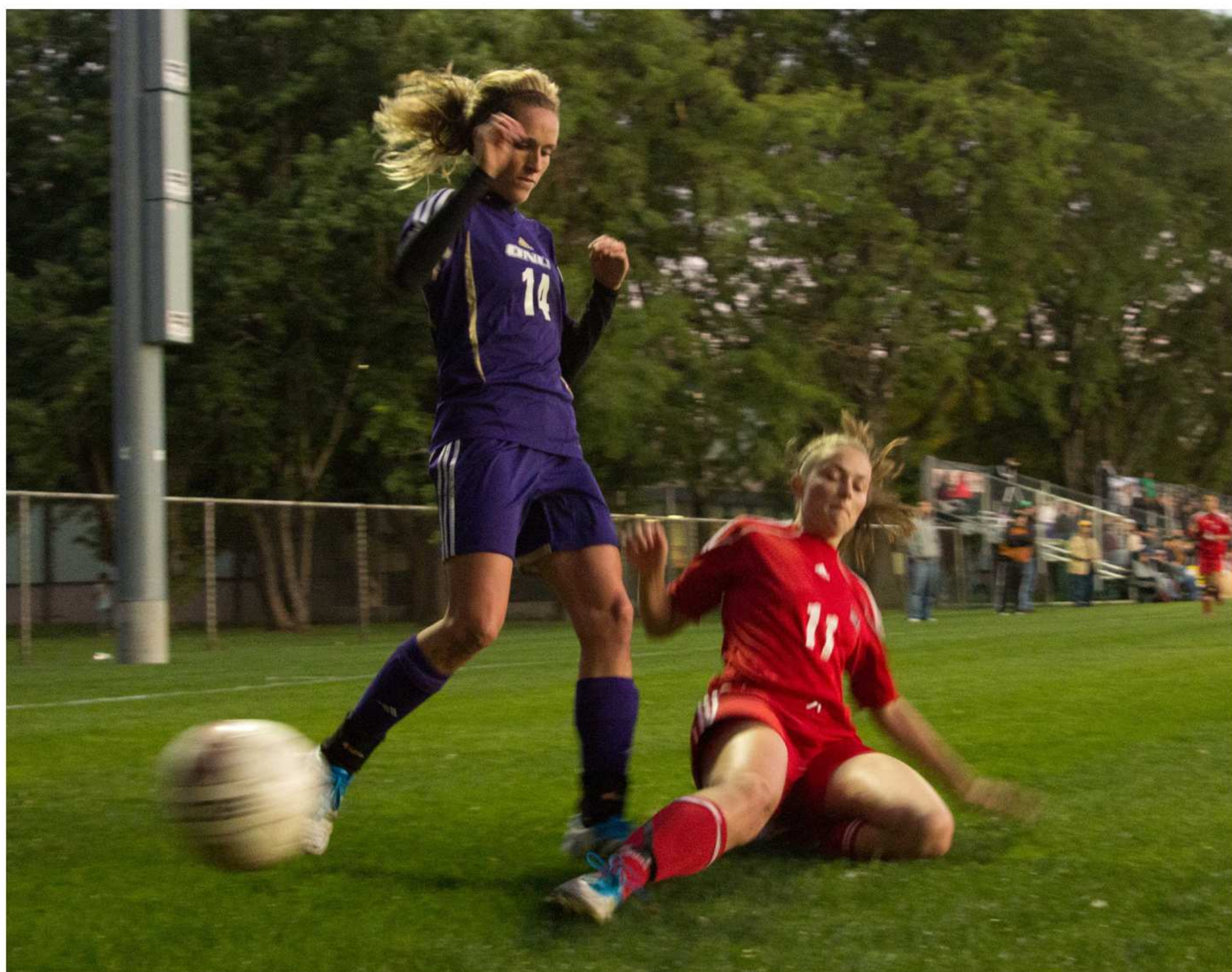
Despite the bad start, the Hawks

battled back and finished the half the stronger of the two teams. The second half also proved to be an even affair, with the visitors doubling their lead in the 64th minute, before Marit Tundal scored her third goal in as many games, with a thunderous right footed strike, to set up a frantic last 15 minutes.

Unfortunately, the visitors were able to hold on to their slender 2-1 lead to condemn the Hawks to their second conference loss of the season.

However, the team will take great confidence from the fact that they went blow for blow with one of the best teams in the nation for 90 minutes of soccer.

The Women's team are next in action this Wednesday as they welcome St. Francis to Stuart Field. Kick off is at 7 p.m.



Athlete Spotlight: Jamie Ward



Name: Jamie Ward
Year: Senior
Major: Bio chemistry **Sport:** Soccer
Position: Outside Mid/forward
Favorite thing about your sport: The intensity and competitiveness of soccer.
What you like best about the fans at your games: That they just come out to support us.
Favorite thing to do on campus: Going to all of the sports events.
Best tip for anyone who wants to be great at your sport: Have fun on the field!

Come cheer Jamie Ward and her teammates on at the next soccer game!



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AMAZINGCHICAGOFUNMAZE

THURSDAY OCTOBER 13 - ONLINE
FOLLIES (TICKETSALE)

SATURDAY OCTOBER 15 - KEATING
PUMPKINLAUNCH

OCTOBER 29 & 30 - E1 Building
SIAMCONFERENCE2011

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