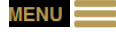


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Oakland University

**School of Engineering  
and Computer Science**



The official newsletter serving students, alumni, faculty, staff and friends of the School of Engineering and Computer Science at Oakland University.

March 2013  
Volume 2 - Issue 2

**ISE student takes top prize**

Industrial and Systems Engineering undergraduate student, Matt Toter, won first place and a \$500 prize in the Institute of Industrial Engineers (IIE) Great Lakes Regional Conference's Student Technical Paper Competition. The conference took place from February 15 - 17 at the University of Michigan's Ann Arbor campus.

The purpose of the competition, according to the conference's website, "is to encourage undergraduate students to write and present outstanding technical papers." Students were judged on their paper and their presentation of it. Students from the University of Michigan, Purdue University, Youngstown State University and Western Michigan University also competed.

Toter's paper was from his summer internship at the Argonne National Laboratory in Illinois. He stated, "I helped engineers investigate the cause of inconsistencies noticed during electric and hybrid vehicle testing. I designed several experiments to identify what caused errors in the data acquisition unit used to determine the electric consumption of the vehicles. I produced a new procedure to ensure that accurate results would be found consistently regardless of where the test is being performed."

Robert Van Tiel, Chair of the Industrial and Systems Engineering Dept. said "Matt is a real asset to our department. He is a well-rounded individual, besides being an excellent student, he is a goalie on Oakland's club hockey team."

After winning the competition, Toter was invited to represent the region this May at the IIE Annual Conference's National Student Technical Paper Competition in Puerto Rico.



**Matt Toter**

**Crowds welcomed to Engineering and Computer Science Day**

Oakland University officials say they are seeing signs that young adults are interested in preparing to thrive in a more robust economic future. They point to Oakland University's School of Engineering and Computer Science's annual Engineering and Computer Science Day which was held Saturday, February 2nd.

Staff welcomed more than 400 high school students, pre-college students and their families who were able to check out the college's programs and projects.

"The response was overwhelmingly positive," said Lorenzo Smith, the school's associate dean. "The experience helped (guests) understand just how easy it is to get connected to research at the university. One father joked that he is tempted to become an engineer himself."

Guests toured faculty research laboratories, viewed student project displays and demonstrations, and observed how skills can be applied to real-world problem solving and innovation.

Christopher Kobus, a professor of mechanical engineering and director of outreach and recruitment for the school, said that outreach efforts in the region's K-12 community — including onsite visits to schools, participation in career fairs, and contributions to science, technology, engineering and mathematics workshops — has helped prospective students see how they can begin to pursue a wide array of rewarding career possibilities.

"In all of these efforts, we have been selling SECS on our biggest strengths, which include student-faculty interaction from day one and hands-on experiences throughout the curriculum," Kobus explained.

To learn more about outreach opportunities through the School of Engineering and Computer Science visit [oakland.edu/SECS/Outreach](http://www.oakland.edu/SECS/Outreach) (<http://www.oakland.edu/SECS/Outreach>).



**Visitors of Engineering and Computer Science Day learned about exciting academic and research opportunities.**

**Engineering Center takes shape****ENGINEERING IN THE NEWS****Doctoral student receives 'Best Poster Award'**

(<http://www.oakland.edu/news/?sid=304&nid=9631>)  
Systems Engineering doctoral student invited to PASI  
(<http://www.oakland.edu/news/?sid=304&nid=9668>)

**OU offers IT program at Mount Clemens center**

(<http://www.macombdaily.com/article/20130131/NEWS01/1301398500/SEARCH/ou-offers-it-program-at-mount-clemens-center>)

**Dr. Sayed Nassar named OU's 2012 Distinguished Professor**

([http://www.oakland.edu/view\\_news.aspx?sid=304&nid=8608](http://www.oakland.edu/view_news.aspx?sid=304&nid=8608))

**OU to award 16 scholarships to help aspiring engineers succeed**

(<http://www.oakland.edu/Newsletter/ViewNewsletter.aspx?x=YTn6r2ViapOYCl7qECitA%3d%3d>)

**Solar panels part of OU professor's plan to create net zero home**

(<http://www.myfoxdetroit.com/story/21290024/solar-panels-part-of-ou-professors-plan-to-create-net-zero-home>)

**IMPORTANT DATES****March 8****ME Seminar: Amorphous and Nanocrystalline Silicon Thin Film Solar Cells**

(<https://www.oakland.edu/upload/docs/SECS/Newsletter/Seminar%20-%20March%208%202013%20Dr%20Yan%20amorphous%20thin%20film%20PV.pdf>)

**March 15****ECE & IEEE Seminar: Cloud Computing- A Paradigm IT Changer**

(<https://www.oakland.edu/upload/docs/SECS/Newsletter/IEEE-OU-BRANCH-SEM-GenMemb-Mtg-Dr-M-h-28022013.pdf>)

**Now through March 15****Tau Beta Pi Gleaners Food Drive**

([https://www.oakland.edu/upload/docs/SECS/Newsletter/FoodDriveFlyer\\_W13.pdf](https://www.oakland.edu/upload/docs/SECS/Newsletter/FoodDriveFlyer_W13.pdf))

**March 18**

Registration Begins

**March 29****Grad Student Social Event** ([https://www.google.com/calendar](https://www.google.com/calendar/render?eid=dTt1ZWRncjUwagdjNkN1dG83cGhzZnFncTAgb2FrbGFuZC5lZHVhZjhbHM5MnVvZjR2cHA:ctz=America/New_York&si=true&output=xml)

[/render?eid=dTt1ZWRncjUwagdjNkN1dG83cGhzZnFncTAgb2FrbGFuZC5lZHVhZjhbHM5MnVvZjR2cHA:ctz=America/New\\_York&si=true&output=xml](https://www.google.com/calendar/render?eid=dTt1ZWRncjUwagdjNkN1dG83cGhzZnFncTAgb2FrbGFuZC5lZHVhZjhbHM5MnVvZjR2cHA:ctz=America/New_York&si=true&output=xml))

**April 19**

Exams begin

**April 27**

Spring Commencement

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**The School of Engineering and Computer Science is always interested in hearing from our alumni. E-n your latest job, accomplishment or relocation to [prawdzik@oakland.edu](mailto:prawdzik@oakland.edu) (<mailto:prawdzik@oakland.edu>).**



The School of Engineering and Computer Science's new Engineering Center is coming along nicely since breaking ground. Building crews are forming the foundation in the snow and cold

#### Professor wins "Second Best Paper" award



Dr. Gautam B. Singh, associate professor of engineering within the Department of Computer Science and Engineering, received the Second Best Paper Award at the International Conference on Leveraging Information Technology for Competitive Advantage. The event, held February 21st and 22nd, was organized by the Asia Pacific Institute of Management, New Delhi. Dr. Singh's paper is titled "Strategies for Protecting Intellectual Property Rights in Software and Databases."

#### SECS Brag Corner

*News and notes from around the School of Engineering and Computer Science.*

#### Computer Science and Engineering

- **Wenjin Zhou, Ph.D.**, was invited talk with the Department of Radiation Oncology at Albert Einstein College of Medicine in NYC on Jan. 22nd. She's collaborating with them to study the cancer radiation therapy effects on brain structure. The meeting includes **Dr. Chandan Guha** (vice chair), **Dr. Mahdir Garg** (clinical director), and **Dr. Xiaodong Wu** (president of Biophysics Research Institute of America).
- **Dr. Zhou** will give an oral presentation (approx. 4% acceptance rate) at the Organization for Human Brain Mapping (OHBM) annual meeting to be held in Seattle in June, 2013.
- **Dr. Zhou** received the NSF Career Workshop Travel Grant to attend the NSF Career Workshop to be held in Philadelphia in March, 2013.
- **Ching-seh Wu, Ph.D.**, attended the IEEE CloudCom International Conference to publish two papers in Taiwan: Automatic SaaS Test Cases Generation based on SOA in the Cloud Service and QoS-Aware Dynamic Research Component Composition for Collaborative Research Projects in the Clouds. Another paper of Dr. Wu's has been accepted by IEEE 10th International Conference on Information Technology: New Generations: The Test Path Generation from State-based Polymorphic Interaction Graph for Object-Oriented Software. Dr. Wu has also been invited to give two seminar talks at the Graduate School of Information Engineering and Computer Science of the National Cheng-Kung University and Graduate School of Information Management of Chang-Jung Christian University in Taiwan.
- Ph.D. students **Sangsig Kim** and **Byunghun Lee** of **Dae-Kyoo Kim, Ph.D.**, has had a paper accepted at the Innovative Smart Grid Technologies Conference (ISGT) 2013.
- **Dr. Kim** hosted two visiting Ph.D. students from Sogang University for September 2012- December 2012 and is hosting a visiting scholar **Dr. Dongwon Jeong** from Kunsan National University for February 2013-January 2014.
- **Dr. Kim** presented an invited talk on Interoperability for Smart Grid in Computer Science Department at Western Michigan University
- **Dongwon Jeong, Ph.D.**, from Kunsan National University has joined as a visiting scholar the Software Engineering lab of **Professor Kim** from February 2013 till January 2014.
- A paper by **Professors Lunjin Lu** and **Dae-Kyoo Kim** is presented at the 39th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM) 2013.

#### Electrical and Computer Engineering

- **Mohamed Zohdy, Ph.D.** has been named Academic Editor for "Physical Review and Research International." His title of Editor has been extended for the "Consumer Electronic Times."
- **Dr. Zohdy's** journal paper, "Robust hybrid complex motion control using fuzzy logic, inverse dynamics, pidq controllers" was published in the International Review of Automatic Control.
- On the OU-Beaumont Biomedical Research Symposium held on Nov. 14, 2012, the team of **Hongwei Qu, Ph.D.** received the Best Research Award 2nd place. This is the first time for a team from SECS to win an award on this annual event in the past 3 years. The graduate student involved in this project is **Sathish Rajasekaran**. **Dr. Qu's** collaborator at Beaumont is **Dr. Karol Zakalik**.
- **Dr. Qu's** patent "MEMS switches with latching mechanism" was issued on Dec. 4. The patent number is 8,324,519.

#### Industrial and Systems Engineering

- The ISE Department welcomes **Maureen Callaghan** as its new Administrative Assistant. Please stop by the department office in 653 SEB to welcome her the next time you are in the neighborhood.

- Doctoral candidate **Avinash Konkani** is the winner of the 2013 American College of Clinical Engineering's (ACCE's) Student Paper Competition. This award is given every year to a graduate student in Clinical Engineering (CE) or related graduate program who wrote a paper that contributes significantly to the body of knowledge in Clinical Engineering.
- ISE student **John Katona** and **Robert Van Til, Ph.D.**, participated in Oak Park High School's annual Engineering Day. They took-over an Oak Park teacher's classes for the day. They worked with the students on a lean systems simulation and talked about careers in Industrial and Systems Engineering.
- ISE student **Tommy White** was invited to write an article for the Industrial Engineer magazine discussing his work on detecting bottlenecks. "**A New Way to Find Bottlenecks**" (<http://www.iienet2.org/IEMagazine/Details.aspx?id=33108>) appeared in the November 2012 issue and was co-authored by professors **Sankar Sengupta** and **Robert Van Til**.
- ISE students **Matthew Toter** and **Jacqueline Sinishtaj** placed first and second in the 2013 Institute of Industrial Engineers Detroit Chapter's Technical Paper Competition. Matt received \$300 while Jackie was awarded \$150.
- **Barb Oakley, Ph.D.** was invited to present her research on Pathological Altruism at the "In the Light of Evolution VII: The Human Mental Machinery" colloquium in Irvine, CA. This by-invitation only colloquium was sponsored by the National Academy of Sciences.
- ISE student **Meredith Deneweth** has been invited to the National Science Foundation Sponsored Pan-American Advanced Studies Institute on Modeling, Simulation and Optimization of Globalized Physical Distribution Systems being held in Santiago, Chile this August. Admittance was by a competitive process and the invitation includes a \$2,500 travel stipend.

#### Mechanical Engineering

- Fastening and Joining Research Institute (FAJRI) is hosting a one-day short course on Fasteners and Bolted Joints on Wednesday, March 20th. Topics include: Behavior of bolted joints, multi-material joints, failure modes, torque-tension relationship, and role of friction, fastener coating and lubrication, control methods, bolt fatigue, corrosion, elastic interaction, gasket modeling, vibration loosening, recent advances, case studies. To learn more click [here \(https://www.oakland.edu/upload/docs/SECS/Newsletter/Flyer\\_One%20Day%20Short%20Course%20ARDEC\\_March%2020%202013.pdf\)](https://www.oakland.edu/upload/docs/SECS/Newsletter/Flyer_One%20Day%20Short%20Course%20ARDEC_March%2020%202013.pdf).
- **Laila Guessous, Ph.D.**, received a mini-grant through the NSF-Funded ENGAGE program at the Stevens Institute of Technology. The purpose of her project is to implement and assess activities that are meant to enhance faculty-student interactions in 100- and 200-level engineering core courses with the goal of improving students' day-to-day classroom and educational experience.
- **Lianxiang Yang, Ph.D.**, has recently received the "2013 Forest R. McFarland Award of SAE" for his significant contribution to SAE by outstanding contributions to and leadership in MM&T committee and outstanding contribution to the overall planning and organizing of technical meetings and conferences since 2005.
- **Dr. Yang** has been selected as editorial board member of the peer-reviewed international Journal "Optics and Lasers in Engineering" – A SCI journal from Elsevier Publishing House.
- **Dr. Yang** was recently awarded a \$4,000 grant from Chrysler for a new project titled "DIC FLDO determination on Pre-strained Aluminum Sheets."
- **Xu Chen**, a Ph.D. student of Dr. Yang, received recently the "Best Poster Award (with \$500)" from the North American Deep Drawing Research Group for his poster titled "Forming Limit Measurement with Multi-Camera Digital Image Correlation." He has also published his recent research achievement titled "High Temperature Displacement and Strain Measurement Using a Monochromatic Light Illuminated Stereo Digital Image Correlation System" in a peer-reviewed international Journal: Measurement Science & Technology.
- **Sayed Nassar, Ph.D.**, was awarded the project titled, "Optimization of Hybrid Bolting and Joining of Dissimilar Materials," \$236,625 from TACOM through subcontract from Michigan State University (10/1/12 to 9/30/13).



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