

[\(http://www.oakland.edu/\)](http://www.oakland.edu/)



MENU 

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.

**November 2012
Volume 1 - Issue 5**

Oakland University breaks ground for new Engineering Center

Responding to increased demand for the world-class engineering instruction it offers, Oakland University broke ground in October on a \$74.6 million engineering center scheduled to open in August 2014. This 127,000-square-foot facility will house Oakland's School of Engineering and Computer Science, which this fall alone has seen a 20 percent jump in undergraduate enrollment and an 18 percent jump in graduate student enrollment.

"We are here today to celebrate an investment in growth," said OU President Gary Russi, speaking to a crowd of students, faculty and university leaders in a tent on the site of the future building.

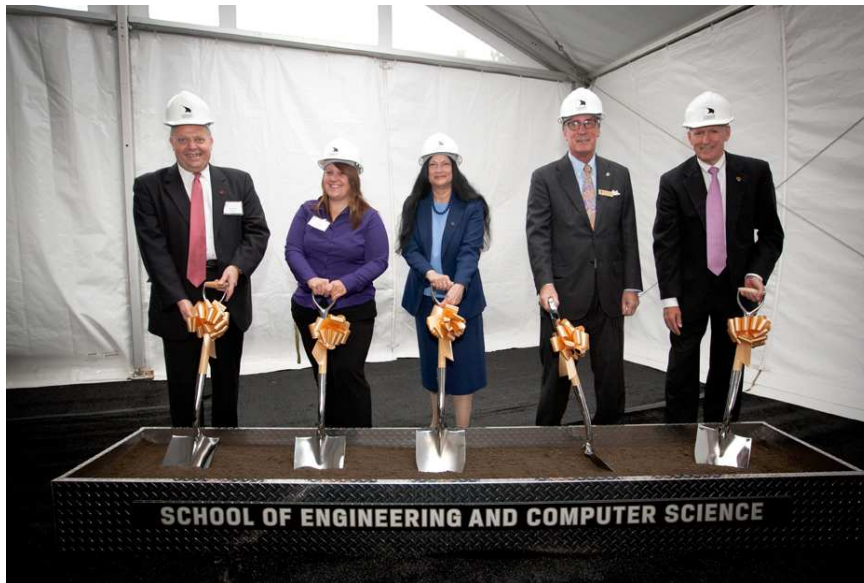
The Engineering Center will include state-of-the-art instructional, research and development space designed to foster student learning and creativity that will ultimately boost U.S. global competitiveness in alternative energy, health care, biomedical, automotive, defense and other high-tech industries.

"Oakland University takes a back seat to nobody in this state in terms of having a forward-looking vision," said Louay Chamra, dean of the school.

The groundbreaking comes on the heels of the recent grand opening of Oakland's 172,000-square foot Human Health Building. The Human Health Building is the new home of OU's highly acclaimed School of Nursing and School of Health Sciences, and marks the fourth completed academic building the university has added in the last 13 years.

For additional photos from the groundbreaking ceremony click [here \(http://www.oakland.edu/view_news.aspx?sid=34&nid=9221\)](http://www.oakland.edu/view_news.aspx?sid=34&nid=9221).

To learn more about the Engineering Center visit [oakland.edu/secs/EngineeringCenter \(http://www.oakland.edu/secs/EngineeringCenter\)](http://www.oakland.edu/secs/EngineeringCenter).



Breaking ground for the new engineering center. Left to right is Dean Louay Chamra, student Kimmy Romstad, Interim Provost Susan Awbrey, Michael Kramer, Chair of the Board of Trustees and OU President Gary Russi.

ENGINEERING IN THE NEWS

New Online Master's in Engineering Management Program at Oakland University

http://www.automationalley.com/a2_nws_newsdetail?id=a0M600000B7UAqEAN
Engineering scholarship awarded to OU senior from Clarkston
http://www.oakland.edu/view_news.aspx?sid=304&nid=9158

Siemens PLM Software provides OU nearly \$12M in software licenses

<http://www.oakland.edu/Newsletter/ViewNewsletter.aspx?x=YTn6r2ViapNmMkiWJdQ8Rg%3d%3d>

IMPORTANT DATES

November 1

OU Etiquette Dinner (<http://www.oakland.edu/?id=25056&sid=68>)

Through November 14
SWE and TBP Toys for Tots Collection
(https://www.oakland.edu/upload/docs/SECS/TFT_Flyer.pdf)

November 16

SWE Presents: United States Steel
(<https://www.oakland.edu/upload/docs/SECS/US%20Steel.pdf>)

November 22-23

University closed: Thanksgiving holiday

December 15

Fall Commencement

December 24 - January 1

University closed: Holiday break

CONTACT US

Office of the Dean (<http://www.oakland.edu/?id=20078&sid=304>)

248 DHE
Phone: (248) 370-2217
Fax: (248) 370-4261

Computer Science and Engineering

(<http://www.oakland.edu/secs/cse>)168 DHE
Phone: (248) 370-2200
Fax: 248-370-4625

Electrical and Computer Engineering

(<http://www.oakland.edu/ece>)102A SEB
Phone: (248) 370-2177
Fax: (248) 370-4633

Industrial and Systems Engineering

(<http://www.oakland.edu/secs/ise>)653 SEB
Phone: (248) 370-2989
Fax: (248) 370-2699

Mechanical Engineering

(<http://www.oakland.edu/secs/me>)170 DHE
Phone: (248) 370-2210
Fax: (248) 370-4416

Academic Advising

(<https://www.oakland.edu/?id=20085&sid=304>)159 DHE
Phone: (248) 370-2201
Fax: (248) 370-2084

ATTENTION CURRENT STUDENTS: Are you participating in an exciting internship? Would you like to share your experience with other students on campus? If so, sent an e-mail to Academic



Artistic rendering of the future Engineering Center.

Advisor Carmen Etienne
[\(mailto:etienne@oakland.edu\)](mailto:etienne@oakland.edu) or **Communications Manager Emily Prawdzik Genoff**
[\(mailto:prawdzik@oakland.edu\)](mailto:prawdzik@oakland.edu) to learn more.

The School of Engineering and Computer Science is always interested in hearing from our alumni. E-mail us a few lines about your latest job, accomplishment or relocation to prawdzik@oakland.edu (<mailto:prawdzik@oakland.edu>).

OU's Formula SAE Team takes 3rd in Toronto

The FSAE (Formula SAE) racing team finished 3rd at the Toronto Shootout in October. OU's collegiate chapter was one of several highly respected teams at this competitive event.

"The Toronto Shootout is a smaller, but extremely competitive event that is similar to the FSAE series events, but allows more time to compete on the track," said Brian Sangeorzan, Ph.D., faculty advisor. "To earn 3rd Place, one has to have a well built and well designed car, as well as several competent drivers. I am proud of the way our students represented Oakland University."



The FSAE Team took 3rd place at the Toronto Shootout. Pictured left to right are John Smerczak, Stephen Parker, Matt Solnik, Collin Gillespie, Paul Ross and, seated in the car, Kyle Jones.

School of Engineering and Computer Science represented at Go For The Gold

Representatives from the School of Engineering and Computer Science were on hand at OU's biggest on-campus recruitment event, Go For The Gold. High school students, transfer students and their families met Oakland University faculty, staff and students; toured the campus and residence halls, and learned more about Oakland's academic programs through interactive sessions. Go for the Gold is held twice a year — once in the spring and once in the fall.

Ph.D. student Meredith Deneweth represented the Industrial and Systems Engineering department. "It was great representing ISE at Go For The Gold," Deneweth said. "I met many potential students and parents. We spent time discussing their questions about the field of Industrial Engineering and the program at OU. With my 14 years of work experience and many years of schooling, I answered the interested parties questions and highlighted the field of Industrial and Systems Engineering."

Dean Louay Chamra, Dr. Chris Kobus and Dr. Darrin Hanna were also on hand to represent the School of Engineering and Computer Science at the event.



Meredith Deneweth represented the ISE Department at Go For the Gold. She's pictured here with a familiar bear.

SECS Brag Corner

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

Computer Science and Engineering

- The Bachelor of Science in Computer Science has been accredited to September 30, 2018. Bachelor of Science in Information Technology has been accredited to September 30, 2014.
- CSE doctoral students Jared Oluoch, Eralda Caushaj and George Corser, all supervised by Dr. Huirong Fu, have four papers accepted to the 2012 Information Security Curriculum Development Conference.
- Graduate student Shamil Hadi, in the Computer Science and Informatics PhD program, was invited to the University of Baghdad, Karbala University, Kufa University, and Al Nahrain University, all in Iraq, to teach a short course in The Theory and Applications of Dynamic Causal Modeling (DCM). Hadi works with CBR member Mohammad-Reza Siadat.
- A paper, titled "A Tale of Two CTs: IP Packets Rejected by a Firewall," written by doctoral student George Corser was nominated as "Best Paper" at a conference.

Electrical and Computer Engineering

- *Times Higher Education (THE)* ranks the Nanyang Technological University (NTU) in Singapore as the top 86 world universities for 2012-2013. Dr. Robert N. K. Loh was the *Nanyang (NY) Professor* at NTU from 2002-2004 (the NY Professor is the only chair professorship that carries the name of the university).
- Dr. Robert N. K. Loh is invited to serve on the *International Advisory Committee (IAC)* of the *8th IEEE Conference on Industrial Electronics and Applications (ICIEA 2013)* to be held in Melbourne, Australia, on June 19-21, 2013.
- Dr. Robert N. K. Loh served on the *International Advisory Committee (IAC)* of the following international conferences held in Singapore and Malaysia in June and July, 2012: (1) *7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012)* held in Singapore on July 18-20, 2012; (2) *International Conference on Intelligent and Advanced Systems (ICIAS 2012)* held in Malaysia on June 12-14, 2012. Among other duties, Dr. Loh reviewed six papers submitted to the conferences.
- Publications: The following papers were published in 2012: **Witt Thanom and Robert N.K. Loh**, "Observer-Based Nonlinear Feedback Controls for Heartbeat ECG Tracking Systems", in *Journal of Intelligent Control and Automation*, August 2012, pp. 251-261 (this is the second journal paper published

- under the sponsorship of an OU-Beaumont biomedical multidisciplinary research grant). **Robert N.K. Loh and M.N. Karsiti** (Universiti Teknologi PETRONAS, Malaysia), "Observer-Based Nonlinear Control of Depth Positioning of a Spherical Underwater Robotic Vehicle", in Proceedings of ICIAS 2012. **F. Elazabi, M. Zohdy and A. Elazabi**, "A Regulator Design for Nonlinear HIV-1 Infection System," was accepted for publication in the International Journal of Intelligent Control Systems. **F. Elazabi and M. Zohdy**, "Control of nonlinear uncertain HIV-1 models by using Lyapunov function", was accepted for publication in the International Journal of Modern Nonlinear Theory and Applications.
- Daniel N. Aloï and Ashley R. Steffes presented their paper titled, "Vehicle Impact on Personal Privacy Device (PPD) Impact," at the GNSS Institute of Navigation 2012, Nashville, TN, September 17-21, 2012.
 - Mohammad S. Sharawi, Farooq Sultan, and Daniel N. Aloï received notification their manuscript titled, "An 8-Element Printed V-Shaped Circular Antenna Array for Power Based Vehicular Localization," was accepted in the Antennas and Wireless Propagation Letters September 2012.
 - Arbnor Pajaziti, Ka C Cheok, Micho Radovnikovich, Irfan Baftiu and Arbnor Godo received the Best Paper Award at the Proceedings of the 4th Ground Vehicle Systems Engineering and Technology Symposium (GVSETS), Troy, MI, August 14-16, 2012 for their paper titled, "Design and Implementation of a Low-Cost Mobile Robot for Mine Detection."
 - Subra Ganesan gave two seminars on "Advances in DSP in Embedded Systems" and "Advances in FPGA in Embedded systems," at IEEE Metro area workshop series, Detroit Metro, September 7, 2012.

Industrial and Systems Engineering

- Gregory R. Garrett, SECS '97, President, CGS Advisors LLC, will receive Oakland University's Distinguished Alumni Service Award. The highest honor granted to alumni, this award recognizes peerless volunteer leadership in service to OU or its alumni association. Gregg is currently serving on the ISE Dept. Industrial Advisory Board.
- Two ISE students, Mike Banachowski and John Katona, produced a short Youtube video showing how Siemen PLM's Plant Simulation Program is being used to teach students about probability and statistics in our EGR 260 Introduction to Industrial and Systems Engineering class. Plant Simulation is part of a large donation of Siemens Product Lifecycle Management (PLM) tools given to the ISE Dept. in 2011. These tools are being integrated into several ISE courses. The video can be viewed on the ISE@OU channel on Youtube at: [youtube.com/user/ouisedept](http://www.youtube.com/user/ouisedept) (<http://www.youtube.com/user/ouisedept>)
- ISE has received a grant from the National Science Foundation to fund a PLM Scholarship Program for new students with financial need. Seven new PLM Scholarship students enrolled in ISE this fall. Each student received a four year scholarship for \$4,800 per year. ISE is looking for 9 new students to enroll in ISE next fall. If you know of anyone who may be interested, please have them check-out the PLM Scholarship web site at: [youtube.com/user/ouisedept](http://www.oakland.edu/secs/ise/plm_scholarship) (http://www.oakland.edu/secs/ise/plm_scholarship)

Mechanical Engineering

- Prof. Lian X. Yang has recently been selected Associate Editor of the international Journal "Optical Engineering" – A journal of The International Society for Optics and Photonics (SPIE).
- Xin Xie, a Master student in optical lab, has recently published his paper titled "Simultaneous Measurement of Deformation and the First Derivative with Spatial Phase-shift Digital Shearography" in "Optical Communication," a peer-reviewed journal in the area of optical measurements.
- Prof. Laila Guessous has joined the leadership team of the WISE@OU program as co-PI. The WISE@OU program is supported by NSF ADVANCE Partnerships for Adaption, Implementation and Dissemination (PAID) grant of \$518,894. The focus of this program is on institutional analysis, recruitment, retention, and promotion of women or under-represented populations in the science, technology, engineering, and mathematics (STEM) areas. More information about this program can be found at [oakland.edu/advance](http://www.oakland.edu/advance) (<http://www.oakland.edu/advance>)
- ME undergraduate students, Kendal Novak and Scott Shermetaro, gave a poster presentation titled "Evaluation of Coal Fly Ash as a Filler for Thermoplastic Polymer Composite Blends" at the 12th Annual Automotive Composites Conference and Exhibition, in Troy, MI. This research was conducted during the summer under the supervision of Dr. J. David Schall as part of the NSF AERIM Research Experience for Undergraduates Program in the ME Department (PI: Dr. Laila Guessous, co-PI: Dr. Qian Zou).
- Prof. Sayed Nassar presented an invited talk at the 2nd Annual Mechanical Engineering Symposium at MIT titled "Clamp Load Decay due to Vibration-Induced Loosening of Preloaded Threaded Fasteners."
- ME faculty continue being successful in attracting external grants. Prof. Brian Sangeorzan was awarded a \$33,000 grant from Ford Motor Company entitled "Measurement of Piston Oil Jet Heat Transfer Coefficient." Prof. Yang was awarded a \$25,000 grant from Auto Steel Partnership entitled, "AS-7001 Nonlinear Strain Paths: Create Database and Uniaxial Testing," and a \$4,000 grant from Chrysler for the

project titled "DIC FLD determination on Trip-780 ." Prof. Chris Kobus was awarded a \$2,600 grant from US Army for the "Research Education and Apprenticeship Program (REAP)." Prof. Zissimos Mourelatos was awarded a \$31,500 grant from Upwind Technology Inc. titled, "Development of an Analytical Tool to estimate the Closing Effort of an Automotive Side Door." Prof. Zissimos Mourelatos was also awarded a \$10,000 grant from US Army TARDEC titled, "Accelerated Testing Innovation Grant – Senior Subject Matter Expert."

- Dr. Yang received recently a research project (\$15,000) from Auto/Steel Partnership, a sub-project from AS-7001 Nonlinear Strain Path for measuring material properties on DP600 and TRIP780.
- Xin Xie, a master's student of Dr. Yang, has published his recent research achievement titled "Simultaneous Measurement of Deformation and the First Derivative with Spatial Phase-shift Digital Shearography" in a peer-reviewed international Journal: Optics Communications.



School of Engineering and Computer Science

248 Dodge Hall of Engineering
2200 N. Squirrel Road
Rochester, MI 48309-4478
(248) 370-2217

[oakland.edu/secs/](http://www.oakland.edu/secs/) (<http://www.oakland.edu/secs/>)

[facebook.com/ousecs](http://www.facebook.com/ousecs) (<http://www.facebook.com/ousecs>)

To unsubscribe from this mailing click [here \(http://www.oakland.edu/Newsletter/SubscribeUnsubscribe.aspx?sid=458&CategoryId=127%20\)](http://www.oakland.edu/Newsletter/SubscribeUnsubscribe.aspx?sid=458&CategoryId=127%20).

[Printer Friendly Version \(/Newsletter/ViewNewsletter.aspx?x=YTn6r2ViapP%2buYUUGtBq2A%3d%3d&sid=1&print=1\)](#)



2200 N. Squirrel Road
Rochester, Michigan 48309-4401

(248) 370-2100 | [Contact OU \(/contact\)](#)

[Coordinate map of Auburn Hills Entrance \(https://www.google.com/maps/@42.672702,-83.220234,16z\)](https://www.google.com/maps/@42.672702,-83.220234,16z)

ACADEMIC DEPARTMENTS

[College of Arts and Sciences \(/cas\)](#)

[Business Administration \(/business\)](#)

[Education and Human Services \(/sehs\)](#)

[Engineering and Computer Science \(/secs\)](#)

[Health Sciences \(/shs\)](#)

[Nursing \(/nursing\)](#)

[OUWB School of Medicine \(/medicine\)](#)

[Graduate Study \(/gradstudy\)](#)

[Honors College \(/hc\)](#)

INFO FOR

[Future Undergraduate Students \(/futurestudents\)](#)

[Future Graduate Students \(/grad\)](#)

[Current Students \(/students\)](#)

[Alumni \(/alumni\)](#)

[Faculty & Staff \(/faculty-and-staff\)](#)

[Donors \(http://www.isupportou.com\)](http://www.isupportou.com)

QUICK LINKS

[About OU \(/about\)](#)

[Academic Calendar \(/important-dates\)](#)

[Directory \(https://sail.oakland.edu/PROD/bwpkedir.P_DisplayDirectory\)](https://sail.oakland.edu/PROD/bwpkedir.P_DisplayDirectory)

[Jobs at OU \(/jobs\)](#)

[Information Technology \(/tech\)](#)

[University Offices \(/administration\)](#)

[Webmaster \(mailto:webmaster@oakland.edu\)](mailto:webmaster@oakland.edu)

[OU INC \(/ouinc\)](#)

[Macomb-OU INCubator \(/macombouinc\)](#)

LEGAL

[Privacy Statement \(/web-privacy\)](#)

[Policies & Regulations \(/policies\)](#)

[Emergency Preparedness \(/prepared\)](#)

[DMCA Notice \(/dmca\)](#)

[NCA Self-Study \(/self-study\)](#)

© 2014 Oakland University