



MECHANICAL ENGINEERING NEWS

February 13, 2009

A newsletter for the UML Mechanical Engineering community (also available online at <http://mechanical.uml.edu>)

Contact john_mckelliget@uml.edu with any items you would like to see included in the newsletter

Calendar

Feb 13	Ice Skating at Tsongas
Feb 16	University closed
Feb 13-20	Engineer's Week
Feb 17	Bake Sale, K311 10-12
Feb 17	Game Night, K309, 5-7
Feb 18	Bingo, K309, 10-1
Feb 18	Order of the Engineer, Cumnock, 5-7
Feb. 18	Prof. Jeopardy, Ball 214, 3:30-4.30
Feb 19	Deans List Reception, Alumni Hall, 3.30
Feb 17	The Dating Game, Cumnock, 1-2
Feb 17	Be my valentine dance Cumnock 7-12
Feb 28	Engineering Hockey Night
Mar 1	Deadline to sign up for MA FE exam
Mar 2	Dine and Dress for Success
Apr 25	FE Exam(MA and NH)

Career Event.

On March 2nd Career Services will be holding its annual Dine & Dress for Success event. This year's sponsors are Mercury Computer Systems, Homisco, Corning, Nypro, Medtronic and Frito Lay. Please join us from 5-6 pm for the pre-dinner reception to network with representatives from these companies and our wonderful students.

This year the event will be in a new location, on the 2nd floor, Wannalancit Mills Building.

Contact: Martina Witts, Office of Career Services,
Martina.Witts@uml.edu, 978-934-2267

Order of the Engineer

Seniors and graduate students are urged to go to the Dean's office and sign up for the Order of the Engineer Induction Ceremony. The ceremony will be held on February 18, during Engineer's Week. Participation in the ceremony, and the engineer's oath, is recognition of the ethical responsibility of engineers. You will receive an iron engineer's ring. You can bring your loved ones, and we will feed you. There is a \$10 fee for the ring.

Combined BSE/MSE Program

If you are a junior or a senior with ≥ 3.0 cumulative GPA you are encouraged to apply for the combined BSE/MSE program. Upon completion of this program you end up with both a BSE and an MSE in mechanical engineering. In this program you typically take 6 credits of graduate courses in your senior year and, with grades of B or better, you can count these 6 credits toward *both* the BSE (as tech electives) and the MSE degree. You *can* take more graduate courses in your senior year, but only 6 credits can count toward both degrees.

If you apply to the BSE/MSE program you do not have to take the Graduate Record Exam (GRE), and you do not have to pay the application fee. Note that you do not have to complete the MSE degree in order to get the BSE degree. We strongly urge all eligible students to apply. Once you graduate it will be too late to apply. Application is made through the graduate school Website.

DIG Forms.

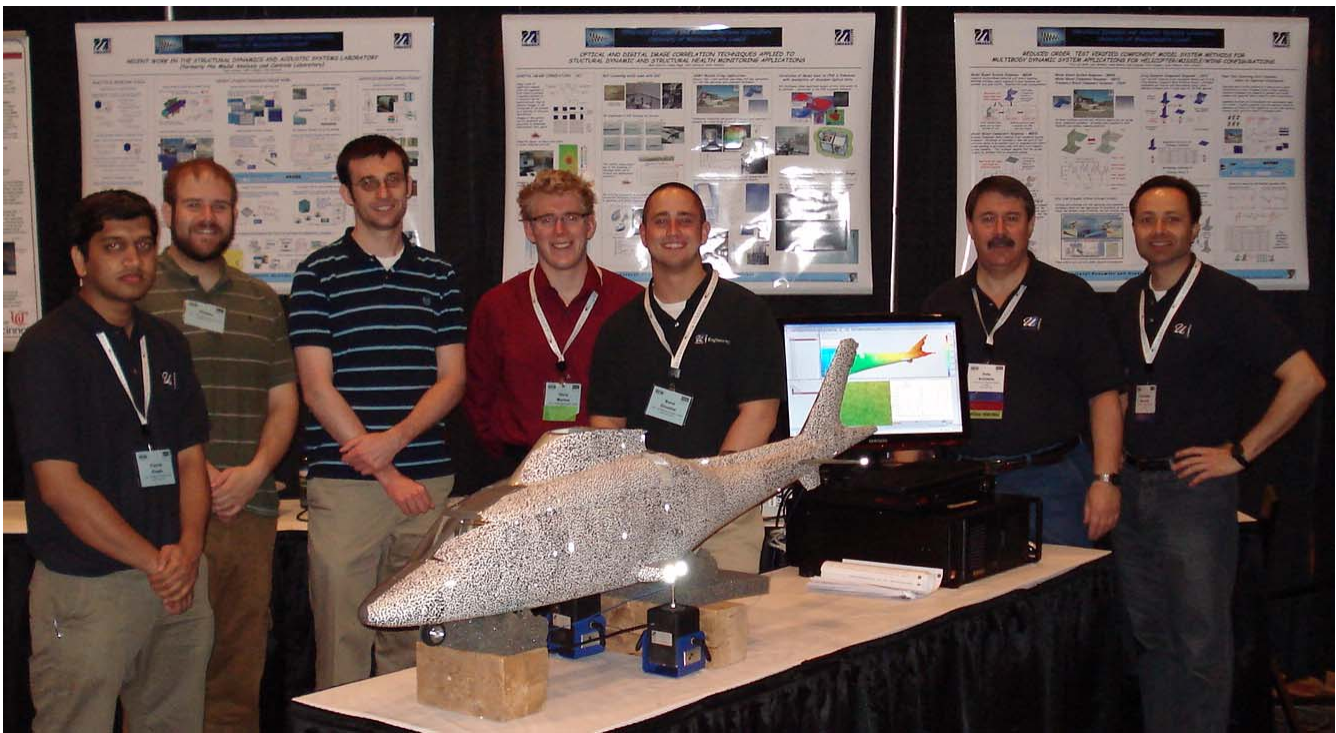
If you are an undergraduate student and are planning to graduate in June or September 2009 you need to submit a Declaration of Intent to Graduate (DIG) form. As of today, forms have been received from the following students: **May 2009:** Ryan Burns, Hector Carrasquelo, Greg Davison, Ashton DePasquale, Erci Favini, Deniz Gifford, Roger Gyebi, Jonathan Hillman, Henry Jamijian, Bruce Leblanc, Troy Lundstrom Timothy Matook, Clayton Parr, Josh Richard Richard Robert 00758232, John Sailhamer Christopher Stahl, Alecander Stith, David Tang Thomas Thiesing. **Sept 2009:** Justin Chamberland, Andrew Cutts Louis DeJesus, Tom McCarthy, Devin Michaud

If you want your name to appear in the graduation booklet it is important that you get your DIG form completed by your advisor ASAP.

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Mechanical Engineering Faculty and Students present at the 27th International Modal Analysis Conference in Orlando, Florida

Faculty and Graduate Students from the Structural Dynamics and Acoustic Systems Laboratory attended the 27th International Modal Analysis Conference and presented seven papers and two separate hour long tutorial sessions on digital image correlation techniques and excitation methods; in addition a two day modal seminar was given and the Technology Booth theme of New Measurement Approaches was developed. Pictured in the Technology Booth are Pawan Pingle, Chris Chipman, Dana Nicgorski, Chris Warren, Dave Cloutier, Pete Avitabile and Chris Niezrecki (Mark Helfrick and Adam Butland not shown) with the scale helicopter used for imaging demonstrations.



Papers Presented were:

- “Component Mode Synthesis using Reduced Order Test Verified Components”, A.Butland, P.Avitabile
- “Conditioning of FRF Measurements for use with Substructuring”, D.Nicgorski, P.Avitabile
- “Expansion of Transient Operating Data”, C.Chipman, P.Avitabile
- “Comparison of 3D Laser Vibrometer and Accelerometer Measurements”, P.Pingle, P.Avitabile
- “Shaker/Stinger Effects on Measured Frequency Response Functions”, D.Cloutier P.Avitabile
- “Optical Non-Contacting Vibration Measurement of Rotating Turbine Blades”, M.Helfrik, P.Pingle, C.Niezrecki, P.Avitabile
- “Using Full-Field Vibration Measurement Techniques for Damage Detection”, M.Helfrik, P.Pingle, C.Niezrecki, P.Avitabile

Tutorials Presented were:

- “Excitation Techniques for Modal Testing”, P.Avitabile
- “Digital Image Correlation Applied to Structural Dynamics”, C.Niezrecki