



# MECHANICAL ENGINEERING NEWS

March 25, 2002

A newsletter for the UML Mechanical Engineering community (also available online at <http://m-5.uml.edu>)

Any items you would like to see included in the newsletter or any suggestions/comments?

Please email them to: [medept@uml.edu](mailto:medept@uml.edu) or leave them with Jackie Paradise in the Mech Eng office.

## Upcoming Seminars

**Monday, Mar 25** (1:30pm, KI 309) Senior Executive Forum, Paul Severino

**Tuesday, Mar 26** (9am and 10am, Ball 210) Distinguished Corporate Speaker Series, Beth Wescott, Genetics Institute

**Friday, Mar 29** (11:30-12:20pm, KI 305) "Automotive Torque-Transfer Engineering", Mr. David Haselton, BorgWarner

## Graduate School Open House

especially for students interested in the BACHELOR'S-MASTER'S PROGRAM

**Wednesday, March 27th**

**2PM to 4PM**

South Campus - Coburn Hall 210

## Library Research Workshop

**Thursday, April 4 from 12:30-2:30pm** (Lydon Library)

Learn how to best utilize the resources of the UML library. This workshop is primarily for graduate students and faculty in the Dept of Mechanical Engineering. Other interested parties may contact Prof. Jim Sherwood ([James\\_Sherwood@uml.edu](mailto:James_Sherwood@uml.edu)) for more information.

## Senior Executive Forum

**Monday, March 25 at 1:30 in Kitson 309.**

Refreshments at 1:00 pm.

The senior executive forum provides a unique opportunity to hear insights from some of the most successful people in business. Many of these people obtained technical degrees and then went on to start and lead major corporations. This week's distinguished speaker is Paul Severino, a leading entrepreneur in the region. He was founder and CEO of Wellfleet Communications, and founder and chairman of Bay Networks. He has an electrical engineering degree from RPI and has endowed the Severino Center for Technological Entrepreneurship at RPI.

## Job Opportunities

### Mechanical Engineer

Urgent permanent openings are available in Schenectady, NY. Check [www.thejosefgroup.com](http://www.thejosefgroup.com) for a complete listing of career opportunities.

**Project/Mechanical Engineers** provide critical expertise in mechanical system design, facility design, nuclear/fossil power plant design, flue gas cleaning, transportation facilities, and industrial/petrochemical facilities.

**Structural Engineers** provide critical expertise in structural analysis, dynamics, mechanics, concrete technology, and foundation design.

**Mechanical Engineers** work in a variety of areas in the design of industrial facilities, power plants, and commercial facilities as they pertain to mechanical equipment and components. Mechanical engineers are responsible for design calculations and equipment sizing, system pressure and flow calculations, material takeoffs and estimating support, design specifications, material requisitions, supplier interface, and construction support.

*For more information, see Jackie Paradise in the Mech Eng office.*

## Practice Interview Day

**Friday April 5th 2002**

10 am to noon and 1 pm to 3 pm

Southwick 200

Sharpen your interview skills with tips from the experts! Professionals in a variety of industries will be here to conduct a videotaped practice interview with you. They will provide feedback to enhance and polish your interviewing skills.

You must sign up in advance for this event. Call (978) 934-2355 today to schedule an individual time to meet with a recruiting professional.

*Contact Career Services at (978) 934-2355 or [Career\\_services@uml.edu](mailto:Career_services@uml.edu) for more information*



# MECHANICAL ENGINEERING NEWS

March 25, 2002

A newsletter for the UML Mechanical Engineering community (also available online at <http://m-5.uml.edu>)

(page 2)

## Spotlight on ALUMNI/COMPANIES



BorgWarner  
(international)  
[www.bwauto.com](http://www.bwauto.com)

Whether you drive a car, truck or sport-utility vehicle, products designed and built by BorgWarner people improve the performance reliability and fuel economy of your engine, transmission and four-wheel drive system. BorgWarner has been synonymous with pioneering automotive innovation since 1928. They are also the proud sponsor of the BorgWarner Indianapolis 500 Trophy. Headquartered in Chicago, Illinois, BorgWarner employ over 13,000 people in 14 countries serving vehicle makers worldwide. BorgWarner Inc. (NYSE: BWA) is a product leader in highly engineered components and systems for vehicle powertrain applications worldwide. The company operates manufacturing and technical facilities in 50 locations in 14 countries including joint ventures, with combined worldwide sales of \$2.7 billion in 2001. Customers include Ford, DaimlerChrysler, General Motors, Toyota, Honda, Caterpillar, Navistar International, PSA and VW Group.

## UML Student Research Symposium

The symposium will be held on **Thursday, April 25, 2002 from 11am-2pm** in Cumnock Hall as part of the University's Excellence in Research Day.

- Practice your presentation skills and prepare for future careers while building your resume.
- Find out about exciting and diverse research activities at UML
- All presenters will receive a tee shirt and a bookstore gift certificate (\$40).
- Undergraduate presenters are eligible to enter the C. Daniel Cole Undergraduate Research Award competition sponsored by the UML chapter of Sigma Xi. Top prize is induction into Sigma Xi and a \$500 cash award. Details at <http://www.sigmaxi.org/chapter/ChapterWebs/UMassLowell/default.htm>

Students must submit their abstracts via the web at <http://129.63.144.213/fscr/> The deadline for all submissions is **Monday, April 1, at 5:00 pm.**

## Spotlight on...Undergraduates



Tracy VanZandt  
Nashua, NH  
Sophomore

Tracy started out her undergraduate education in culinary school. She soon discovered that it was not quite the right path for her, so she transferred to UML in Fall 2000. Tracy chose to major in Mechanical Engineering because of her interest in math, science, and "building stuff". She works part-time in a bookstore in Nashua and still manages to occasionally spend time creating culinary masterpieces. Tracy also enjoys sewing and designing clothes, and her pet lizard, Pythagorus, shares her fondness for math.

## Spotlight on...Graduate Students



Samuel  
Chow  
Hong Kong  
Graduate  
Student  
(M.S.)

Sam grew up in Hong Kong, China. He received a BS in Mechanical Engineering from UML in 1999. Sam started in the Advanced Composite Materials and Textile Research Lab (ACMTRL) as a junior, working on a variety of composites research projects, including creep, abrasion, diaphragm forming, stamping, and bending tests. His recently completed masters thesis research, sponsored by the National Science Foundation and Ford Motor Company, was on the Frictional Interaction between Blankholder and Fabric in Stamping of Thermoplastic Woven Composites. While he generally plays the reserved, mild mannered college student, Sam often surprises people with his outlandish pranks and is best characterized by his lanky stature, every-which-way hair, and bright sneakers. Sam also enjoys tennis, soccer, plastic modeling, tinkering with computers, eating bloody steak, breaking things around the lab, and driving like an absolute lunatic.