



MECHANICAL ENGINEERING NEWS

February 25, 2002

A newsletter for the UML Mechanical Engineering community

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

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

Upcoming Seminars (Free Pizza!)

Friday, Mar 1 (11:30-12:20pm, KI 305)

"Modal Analysis and Some Structural Dynamic Applications", Dr. Peter Avitabile, Department of Mechanical Engineering

Important Dates:

Fri Mar 1 (3:30-4:30pm, BL 326)

Public Speaking Club

E-WEEK Activities

Feb 22-Mar 1 National Engineers Week

Mon Feb 25 Senior executive forum - Joe Gandolfo

Tue Feb 26 Design competition and research poster competition

Wed Feb 27 Guest engineers in class, E council awards, Deans list awards

Fri Mar 1 Engineering Hockey night

Spotlight on...UNDERGRADS



Mark Hansen
Bolton, MA
Sophomore

Mark transferred to UML just this spring from Grove City College in western Pennsylvania. He played football in high school, winning the central western MA state championship his senior year. Mark chose to major in mechanical engineering because of an interest in cars, snowmobiling, and hands-on work. Engineering runs in the family, as Mark's older brother is also a mechanical engineer. In the summer, Mark enjoys wakeboarding and can always find time to work on his car. He hopes to eventually work for a car or snowmobile company, possibly focusing on suspension design.

UML Graduate Receives Award from the US State Department

Selco-Vietnam, a company headed by Harish Hande (D.Eng. UML 1999 and MS energy engineering, UML), received the Award for Corporate Excellence for its work in reducing poverty and spurring economic development in Vietnam's countryside by supplying household electricity to families who lack access to a power grid. SELCO-Vietnam is based on the same model as SELCO-India, which was the subject of Harish's doctoral dissertation at UML. Harish is currently president of the operations in India, Vietnam, and Sri Lanka.

Under Secretary of State for Political Affairs Marc Grossman presented the 2001 Awards for Corporate Excellence, recognizing two U.S. firms – Ford Motor Company and Solar Electric Light Company (SELCO) for their outstanding corporate citizenship, innovation, and exemplary international business practices. Established in 1999, this award is designed to emphasize the important role U.S. businesses can play abroad as good corporate citizens by recognizing exemplary conduct and corporate responsibility. The award demonstrates how American firms can do well by "doing good" in the global marketplace. Among its many programs, SELCO worked with local women's groups to secure low interest loans and repayment schedules geared to crop cycles. It also introduced a "Solar Electricity in Support of Women in Rural and Remote Areas" program and donated a solar power system to a primary school to power the community's television and lights.

Job Opportunities:

Scholar-Intern Coop Job Fair

Cummock Hall, March 14, 2002 (Tuesday)

Twenty regional companies who are sponsors of our Scholar-Intern Program have been invited to this Engineering Job Fair. This Fair is open to all engineering students who are interested in obtaining permanent positions, summer, coop, or part-time jobs.



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Job Opportunities (cont.): (page 2)

Product Engineer

Freudenberg-NOK (Manchester, NH)

Summary: Responsible for product design, testing, and evaluation. Manages development projects for introduction of new or improvement to existing technologies. Performs and requests FEA analysis and testing. Writes reports and develops test methods. Qualifications: BS in Mechanical Engineering. Geometric dimensioning and tolerances and injection molding preferred. Computer literate, spreadsheet and word processing packages.

For More Info: See Jackie Paradise in the ME office.

Spotlight on ALUMNI/COMPANIES

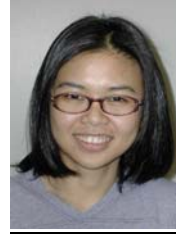


Freudenberg-NOK
(international,
including MA and NH)
www.freudenberg-nok.com

Freudenberg-NOK is the American partnership of the world's largest producers of elastomeric seals and custom molded products. Freudenberg-NOK has enjoyed remarkable growth and is on track to reach \$1.5 billion in sales by 2005 by focusing on the core competencies of sealing, vibration control and elastomeric technologies. All told, the Freudenberg and NOK Group enjoys annual sales of more than \$7.5 billion, with worldwide automotive sales topping \$4 billion, ranking it among the world's top 25 automotive original equipment suppliers. As one of the world's largest non-tire rubber fabricators, the Group develops and produces more than 10 billion components a year in high-quality, lean model cells at 57 automotive operations in 27 countries around the world.

Extending its technology expertise beyond the automotive market, the Group also provides an extensive portfolio of precision molded products to the aerospace, appliance, business machine, fluid power, marine, medical, off highway equipment, and recreational vehicle markets. To address future customer challenges, the Freudenberg and NOK Group is driving such next-generation technology developments as fuel cell sealing systems, magnetic encoders for vehicle dynamics systems, and active powertrain mounts.

Spotlight on...GRAD STUDENTS



Nuchida Suwapaet
Bangkok, THAILAND
*Graduate student (M.S.,
D.Eng.)*

Nuchida Suwapaet started her graduate study at UML in the Spring of 2000. While running the labs as a TA for 22.296 (Mechanical Behavior of Materials) and 22.108 (Intro to Engineering 2), Nuchida has also been working on her MS thesis: "Design for Availability: Remote Communication System Using Solar Power". This research is part of the PerUML project, involving students and faculty in the Solar Engineering program who volunteer to help improve the quality of life of people in the rural areas in Peru. Nuchida's research will help increase the availability of complex communication systems in remote areas, ultimately providing villages with connections to the global community via the Internet through satellite communication systems powered by solar energy.

Nuchida has one younger brother and also has an uncle who lives in Boston. Since the weather here is quite different from Thailand, Nuchida has been learning how to ski and snowboard in the winter, along with playing tennis, reading, and writing lots of letters and postcards. Her secret to improving her English listening skills was listening to rap music (a challenge even to native speakers!). Nuchida is always eager to try new kinds of foods, and she has introduced many of us to Thai coffee!