MECHANICAL ENGINEERING NEWS

April 1, 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** *or leave them with Jackie Paradise in the Mech Eng office.*

Upcoming Seminars

Tuesday, Apr 2 (9am and 10am, Ball 210)
Distinguished Corporate Speaker Series,
W.McGuire & R. Kahan, Analog Devices
Friday, Apr 5 (11:30-12:20pm, KI 305)
"Mechanical Engineering's Role in DOD Sponsored Radar Research," Mr. Tom Horgan, UML Submillimeter-wave Technology Lab

Job Opportunities

Mechanical Engineer
Urgent permanent openings are available in Schenectady, NY. Check www.thejosefgroup.com for a complete listing of career opportunities.

Research Technical Associate (co-op position)
Warner Lambert Company (Milford, CT)
Product and process development, analytical and physical testing, evaluation and reporting. Warner Lambert (now part of Pfizer) is a major provider of quality health care and consumer products.

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

Spotlight on UML Centers and Labs

SUBMILLIMETER WAVE TECHNOLOGY LABORATORY

http://stl.uml.edu/stlweb/

The Submillimeter-Wave Technology Laboratory's goal is to develop and apply technology primarily in the frequency range of 100 GHz to 5 THz. Recent projects funded by industry and the government include: FTIR and laser measurements of material dielectric properties, fabrication of scale models for evaluating radar cross-sections, design and fabrication of RF absorbing materials, radar signature acquisition and analysis, foliage penetration studies, and design and construction of extremely stable CO2 pumped submillimeter gas lasers. STL has employed many ME undergraduates over the past years.

Spotlight on….Faculty

John Duffy
Professor and Coordinator of the MS program in Solar Engineering

John Duffy, a professor here since 1983, teaches courses in capstone design, dynamic systems, and solar engineering. He is the coordinator of the MS program in solar engineering and director of the Center for Sustainable Energy. He has interests in service-learning: the learning of academic subject matter in courses while serving the real needs of communities. Working with students, he is researching the discovery of more efficient and reliable renewable energy and fuel cell systems for remote areas of the globe for medical, academic, and community needs.

Prof. Duffy leads groups of undergraduate and graduate students to the Peruvian Andes twice a year to design and install photovoltaic and microhydro systems for vaccine refrigeration, transceiver radio and satellite communication, lights, battery charging, water purification, crop drying, aquaculture, and PCs. He thanks the many students and staff who have volunteered to help the delightful and hard-working Incan people over the last four years (and who have learned much in return).

He has two sons in college (and empathizes with all the students here). He enjoys hiking with his wife Donna (a clinical psychologist and professor), traveling and camping with his family, and learning Spanish.

Practice Interview Day

Friday April 5th 2002
10 am to noon and 1 pm to 3 pm, Southwick 200
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 for more information

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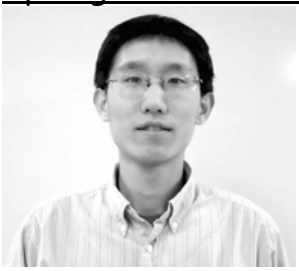
(page 2)

Spotlight on….Graduate Students



Weiwei Li
China
Graduate Student
(M.S.)

Weiwei Li enrolled in the Mechanical Engineering department in the spring of 2001 and soon after joined the Heat and Mass Transfer lab. He received his B.S. with a major in Fluid Power Control and a minor in Electrical Engineering from Northwestern Polytechnical Univ. He also has a M.S. in Computer Engineering from Shanghai Tiedao University (now merged into Shanghai Tongji University).

Weiwei's thesis research is part of a NASA funded research project--*Phase Change in Low and Jittering Gravity Environment Simulated Via Electromagnetic Field.* As part of this work, Weiwei has been busy designing testing apparatus and conducting several experiments. He hopes to complete his thesis soon and looks forward to working in the engineering world.

Outside the lab, Weiwei enjoys many sports such as Table Tennis, Volleyball and Badminton and outdoor activities such as fishing, hiking and skating. He is one of the sports organizers in the Chinese student society in UML. He also has been known to put the best players to shame in card and chess games.

Library Research Workshop

Thursday, April 4 from 12:30-2:30pm (Lydon Library) contact: Prof. Jim Sherwood (James_Sherwood@uml.edu)

Useful Websites

http://www.processassociates.com/process/tools.htm

conversion factors, physical constants, heat transfer and flow calculation tools, pipe and tube dimensions

Spotlight on ALUMNI/COMPANIES

Endius, Inc.
Plainville, MA
www.endius.com

Endius, an innovative medical technology company focused solely on the spine, is spearheading the application of endoscopy, a minimally invasive surgical procedure, to spine fusion surgery. Their mission is to provide less traumatic and more effective surgery for patients treated for back pain, resulting in decreased morbidity, less post-operative pain, shorter hospital stay, a faster recovery and better clinical results.

Endius was founded in 1995 to expand the limits of endoscopic spine surgery beyond the treatment of simple herniated discs. The company secured $17 million in funding in September 2000. Endius' products are used by leading surgeons in over 30 hospitals nationwide. Headquartered in Plainville, MA, Endius currently has 50 employees.

Spotlight on…Alumni

Stephen J. Anderson Endius, Inc.
Development Engineer

Stephen was a June 2000 graduate of the Mech Eng Dept. As an undergraduate, he did a co-op at Hewlett Packard Medical (now part of Philips) and worked on a high-density disc recording process at a high-tech start-up company in Holliston called Firefly.

Stephen's work was recently featured in a Fox segment in Arizona. The segment included an interview of one of the patients that Endius used their endoscopic Fusion procedure on. The camera, scope, images, and access equipment are some of the items that Stephen developed.

Stephen writes via email: "It is a pretty exciting time and fulfilling when you hear the patients testimonial first hand. I have seen the procedures live in the Operating Room both the endoscopic Endius method and the open method...and there definitely is a huge difference. Some of our patients have gone home the next day! We did 105 Endoscopic procedures in 2001 and already have done 40 Endoscopic procedures this year!"