



MECHANICAL ENGINEERING NEWS

May 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

Friday, May 3 (11:30-12:20pm, KI 305)
"Issues and Drivers for Successful materials Utilization". Prof. Jacqueline Isaacs, Department of Mechanical, Industrial, and Manufacturing Engineering, Northeastern University.

Messages from the Chair

The Department faculty recently made two important changes to the undergraduate curriculum.

22.381 Fluids and 22.311 Applied Strength have switched places. Fluids will now be offered in the Fall semester and Applied Strength in the Spring. Fluids will now be a pre-req for 22.302 ME Lab I, rather than a co-req.

All students will now take 22.473 Design Theory and Constraints and the 3-credit 22.423 Capstone I as their capstone design sequence. 22.473 must be at least a co-requisite with 22.423. In addition, and at the discretion of the faculty, students may also take a new 3-credit course 22.424 Capstone II instead of one of the technical electives.

These changes are effective Fall 2002.

There will also be some other changes to the schedule next Fall due to the fact that Prof. Mironer is retiring, and Prof. Duffy is going on Sabbatical.

Graduating Seniors - Please check the graduation list on the Department Web site.

- J. McKelliget, Chairman

May 3 Department Seminar Speaker



Dr. Isaacs joined the Materials Group in the Department of Mechanical, Industrial and Manufacturing Engineering at Northeastern University in September of 1995. Her research interests have focused on environmental and economic issues in advanced materials processing. Research interests in powder metallurgy have connected her with efforts at the Worcester Polytechnic Institute in the Metals Processing Institute

The balance of her research lies beyond the conventional means for materials characterization. The essence of this current work focuses on economic and environmental issues in materials processing and manufacturing. Each research effort and collaboration combines to form a synergistic, rich blend for application of various analysis tools in numerous manufacturing scenarios.

UML undergraduate receives American Nuclear Society Scholarship

Michael Balazik was recently awarded an American Nuclear Society Undergraduate Scholarship for \$2000 for entering the field of nuclear science and engineering.

Commencement Awards

The following awards will be conferred at this year's Order of the Engineer ceremony during commencement weekend.

Michael Slocumb will receive the Kun Min Award for Excellence in Thermal Fluid Sciences.



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Michael Agnese will receive The Craig D. Douglas Award for Excellence in Solid Mechanics.

Michael Slocumb will receive the Dean's Gold Medal for highest undergraduate GPA

Darin Lussier will receive the Dean's Gold Medal for highest graduate GPA

Tau Beta Pi, Engineering Honor Society

Tau Beta Pi (TBP, www.tbp.org) is the only engineering honor society representing the entire engineering profession. Founded in 1885, it is the nation's second oldest honor society. TBP recognizes students of distinguished scholarship and exemplary character. As one of its services, TBP runs the Engineering Futures program to help engineering students build their interpersonal skills through sessions such as: People Skills, Group Process, and Analytical Problem Solving.

The following Mechanical Engineering students are current TBP members:

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|------------------|------------------|
| Michael Balazik | James Mangum |
| Suzanne Collins | Kari Stevens |
| Gary Hachadorian | Lara Thompson |
| Kevin Ledoux | Linda Barrington |
| Charles Goodman | Jeffery Hodgkins |
| William Jacobs | Tracy Van Zandt |
| Joel Verrecchia | |

In the press



Sammy Shina, (Professor & Coordinator of College Co-op program) has authored a new book titled "Six Sigma Electronics Design and Manufacturing" by McGraw-Hill publications. Prof. Shina wrote the book during his recent Sabbatical leave.

Undergraduate Capstone Design Projects

The following is a list of undergraduate students, who are working under Professor John Duffy on Capstone Design projects (22.424).

Drinking water purification system for whole town of Quian, Peru, *Sean Montminy, Matt MacDonald, James Hart*

Inexpensive nebulizers for remote clinics, *Charlie Hayden, Chris Brace*

Portable vaccine fridge system for remote clinics, *Greg Sandford, Mike Slocumb, Mohamed Coomber*

Microhydro system for lights in Huamba, Peru, *Zachary Gray, Adam VanWagner, Laurent Meunier*

Detachable ice cream vendor cart for wheelchair (client in Fall River), *George Hammond*

They will be having their presentation on Friday, May 10 in pictel room at 2:30 PM.

Graduate Capstone Design Projects

The Following is a list of graduate students, who are working under Prof. Duffy on Capstone design projects (22.504).

Portable solar vaccine fridge system for very remote clinics, *Juan Pablo Trelles, Peter Aurora, Salinee Tavaranan, Adarsh Das*

Solar coffee dryer for Kenya, *Dismas Makori, Somchai Jiajitsawat, Walter Lee, Vinay Ananthachar*

They will be having their presentation on Friday, May 10 in Ball 120 at 11.00 AM.