



# MECHANICAL ENGINEERING NEWS

February 11, 2002

This is the inaugural issue of MechENews! The objective is to provide information and connections within the Mechanical Engineering community of faculty, staff, and students. If you have any items you would like to see included in the newsletter or have 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 (Free Pizza!)

**Friday, Feb 15** (11:30-12:20pm, BL 120)

*FEA Analysis of a Composite Unmanned Aerial Vehicle*, Mr. Tim Mustone, Draper Labs (Cambridge, MA)

## Important Dates:

**Feb 11** Freshman meet advisor week starts

**Feb 15 (Fri)** (3:30-4:30pm, BL 326)

Public Speaking Club (*see below*)

**Feb 23 (Sat)** (10am-2pm, KI 309) TauBetaPi Engineering Futures Workshop (*see below*)

**Feb 22-Mar 1** National Engineers Week

## TBP Engineering Futures Workshops

The Engineering Futures workshop is an interactive training course in personal and leadership skills development, problem solving, and teamwork developed specifically to help engineering students be successful in their careers. The session being held during E-Week is specifically oriented towards analytical problem solving in a team setting, a skill that is definitely required of engineers, both as students and in the working world. The sessions are both fun and exceedingly useful for any future engineer. LUNCH PROVIDED!

Interested students can sign up by email to:

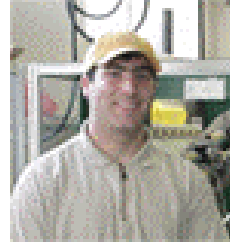
[kevin\\_ledoux@uml.edu](mailto:kevin_ledoux@uml.edu).

## Public Speaking Club

- Do you get nervous giving presentations in class?
- Want to improve your interviewing skills?
- Want to wow your boss at the next meeting?

If you answered yes to any of these questions, come to the Public Speaking Club meeting on Fridays, 3:30-4:30pm (BL326). In an informal setting, learn about and practice tips for giving presentations, answering questions, and speaking in front of other people.

## Spotlight on...UNDERGRADS



Brad Paquin  
*Dracut, MA*  
*Senior*

When away from UML, Brad enjoys mountain biking at Lynn Woods and Mt. Snow. If you want to talk about cars, Brad is the one to ask. Brad currently works part-time at Kazak Composites in Woburn, MA and in the UML Advanced Composites Materials and Textile Research Lab. Shown here next to the braiding machine used in his previous research projects, Brad has plans to fabricate his next bike frame using composites.

## Spotlight on...FACULTY/STAFF



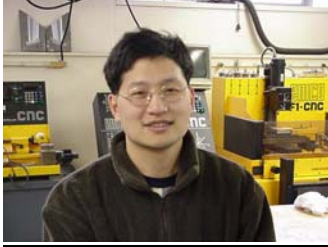
John McKelliget  
*Professor and Mechanical*  
*Engineering Department*  
*Chairman*

Prof. McKelliget is a native of London, England and moved to the States in 1980 as a researcher at MIT. He has been a Department faculty member since 1984. He lives in Andover MA with his wife Susan and kids Katherine (13) and Jack (11). He likes to ski in the winter, hike in the spring and fall, and beach it in the summer (all in moderation of course). He will be talking about his research interest in thermal plasma processing of materials at an upcoming ME seminar (April 19).



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## Spotlight on...GRAD STUDENTS



Chung-Yung Tung  
Taichung, Taiwan  
Graduate student  
(D.Eng)

Tung is known to most of the undergraduates as the TA for Mechanical Design Lab I and II (22.201/202). He has two kids, Alex (5) and Kendra (1 ½), and is married to Ching-Pei Liang, who is also a graduate student in the ME dept. Tung is currently studying the numerical simulation of thermal stresses and heat conduction in plasma coating under the direction of Professor McKelliget. His research has applications in corrosive protection and hardening of materials used in turbine blades, landing gear, and automotive transmissions.

### Useful Websites:

[www.matweb.com](http://www.matweb.com) -- good source of information for material properties

### Upcoming Features:

Job Opportunities

Scholarships

The Way Things Work

Capstone Project Highlights

Research Highlights

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## Spotlight on ALUMNI/COMPANIES



Draper Laboratory (Cambridge, MA) is a state-of-the-art research and development laboratory, employing more than 750 engineers, scientists, and technicians on a broad array of programs for government and commercial sponsors. Its sponsored work encompasses capabilities in the following business areas:

- Strategic Systems
- Tactical Systems
- Space Systems
- Special Operations and Land Robotics
- Systems Technology
- Biomedicine

The Laboratory's unparalleled expertise in the areas of guidance navigation and control systems remains its greatest resource. Draper is among the leaders in fault-tolerant computing, reliable software development, and modeling and simulation. While Draper is committed to continued excellence in its traditional areas of expertise, it is leveraging the state-of-the-art techniques that underlie its core competencies to a wider spectrum of applications. These include a broad range of information systems, precision-guided munitions, air traffic flow management, military logistics, and, in the biomedical arena, innovative neural prostheses.

To this end, Draper has nurtured a highly skilled and motivated work force supported by a network of exceptional design, fabrication, and test facilities. This combination of highly trained technical talent and state-of-the-art facilities enables the Laboratory to deliver not only the design and development of first-of-a-kind systems incorporating innovative technology, but also high-value-added engineering services to a broad spectrum of government and commercial sponsors.

[[www.draper.com](http://www.draper.com)]