



MECHANICAL ENGINEERING NEWS

September 11, 2009

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

Calendar

Sept 14 Solar Seminar, 12.00 pm, KI309
Oct 1 **ME BBQ, 11.30-1.30 p.m.**
Oct 12 Columbus Day, University Closed
Oct 19 Advising Begins
Oct 21 Engineering Job Fair, 1-3 pm, Rec. Center
Oct 28 AIAA Seminar, 7 pm
Nov 1 University Open House
Nov 11 Veterans Day, University Closed

Welcome

Welcome back to all our returning students, as well as new freshmen and transfer students. This semester we have 375 undergraduate students – up 50 from last year.

This semester represents something of a challenge to the Department as three of our full-time faculty members are absent from teaching: Prof. Sherwood is on Sabbatical, Prof. Chen has moved (hopefully temporarily) into the university administration, and Prof. Reynaud is on family leave. We welcome adjunct instructors Jennifer Gorczyca, Samira Farboodmanesh, and Struan Robertson.

We are having a departmental BBQ on October 1. Mark your calendar. It will be in Cumnock Hall unless it looks like good weather.

- Prof McKelliget

Sad News

Julio C. Faria, 23, an undergraduate mechanical engineering student, died from injuries incurred following a brain aneurysm, Friday, June 26, 2009, at the Brigham and Women's Hospital in Boston. Born April 14, 1986, in Terceira, Azores, Portugal, He was the son of Francisco F. and Lina M. Faria. He grew up in Terceira, and came to the Lowell in 1998 with his family. He graduated from Lowell High School, and would have entered his Senior year here this semester. He will be sorely missed.



Julio C Faria

Happy News

Prof. Emmanuelle Reynaud, of the ME Department, and Prof. Dan Schmidt of Plastics Engineering recently welcomed their first child into the world. Chloe was born on May 26 and weighed 6 lb. Congratulations.



Chloe Schmidt

Transitions

Professor Sammy Shina Celebrated his 65th birthday by climbing Mount Ben Lomond in Ogden, Utah at 10,000 ft .



Prof. Shina

C. Zelman Kamien, Professor Emeritus and former ME Department Chairman , passed away unexpectedly at age 82 on Monday, July 27, 2009. He was the husband of Ethel Kamien, also a retired UML professor. Zelman was born in Bialystok, Poland, February 24, 1927. In 1950 he moved to the

United States to attend Purdue University where he received his Bachelor's degree in Aeronautical Engineering and his Master's and PHD degrees in Mechanical Engineering. He worked for Avco Corporation in Wilmington and then Thermo-Electron Corporation in Waltham. In 1967 he joined the faculty of Lowell Technological Institute and retired as

professor of Mechanical Engineering at UMass Lowell.



Solar Engineering Seminar Monday, September 14, noon, KI309

“Advanced Invention to Venture” Applied to Solar Drip Irrigation

Carolina Barreto and Manuel Heredia, doctoral students in renewable energy engineering, will share highlights of an NCIIA (National Collegiate Inventors and Innovators Association) workshop “Advanced Invention to Venture” they were invited to last month that focused on business model development for developing country markets. Topics included strategic planning, intellectual property, partnerships for development and dissemination, identifying local champions, designing for affordability, marketing, manufacturing and distribution, cultural issues and economic sustainability. They will present a plan they developed for a solar-drip irrigation non-profit for Peru as a case study. Payback time of 2 years is predicted. The work is being done in part under a Sustainable Vision grant from NCIIA.

AIAA Seminar Wednesday October 28, 7.00 pm. Room TBA

“Development of the Guidance, Navigation & Control System - Apollo The Race to the Moon”

Jerry Gilmore, formerly Director of the Draper Laboratory's Space Programs Office, will describe his working experience on the Apollo Program. He will summarize the history of the Space Race, starting with the early USSR successes that resulted in President J. Kennedy's speech on 5/26/1961 that announced the USA's Manned Mission to the Moon. Jerry will describe the early activities at the MIT/IL that resulted in MIT being contracted to develop the Guidance, Navigation and Control (GN&C) System for the Apollo spacecraft. The lecture will primarily address the GN&C hardware development activity. It will include photos of the GN&C equipment and describe their function and location in the spacecraft. He will discuss problems that were encountered and some of his experiences in developing the GN&C system and supporting the Apollo flights 8, 11, 12, 13 and 17.