The School of Engineering and Technology presents the Engineering Senior Project Presentations & Demonstrations

Presentations are held in CASET 212

1:00 p.m.
Presentation: Team DRIVE

1:30 p.m.
Presentation: Team AIR
Demonstration: Team DRIVE in CAS106A

2:00 p.m.
Presentation: Team II
Demonstration: Team AIR in CASET 125

2:30 p.m.
Presentation: Team PAS
Demonstration: Team II in CASET 124

3:00 p.m.
Presentation: Team MTD
Demonstration: Team PAS in CASET 125

3:30 p.m.
Presentation: Team FIRE
Demonstration: Team MTD in CASET 119

4:00 p.m.
Demonstration: Team FIRE in CASET 203

Students will be available throughout the afternoon for informal demonstrations and questions.

2009-10 Senior Projects
Faculty Board Members

This group serves as advisors, overseers, and guides to help the teams through their overall processes:

Eric Becks, Jon Couillard, Ron DeLap, Jim Devaprasad (chair), Robert Hildebrand, Andrew Jones, Jeff King, David McDonald and Paul Weber

Special thanks to Cheri “Mom” Skinner

The LSSU Product Development Center (PDC) is an extension of the College of Engineering, Technology and Economic Development. It provides the necessary engineering design tools, engineering staff, materials analysis, product packaging guidance, software development and other similar services leading to the development or testing of a functioning prototype to meet the needs of the MEDC, the MI-SBTDC, and small businesses and entrepreneurs of Michigan while providing opportunities for students to obtain experience on actual design projects.

LAKE SUPERIOR STATE UNIVERSITY
For more information about LSSU’s School of Engineering & Technology, contact the office at 906-635-2207 or visit us online at www.lssu.edu/eng

www.lssu.edu/pdc

Friday • April 30, 2010
1:00 p.m. - 5:00 p.m.
in the Center for Applied Science and Engineering Technology

Two of 2009’s seven senior project teams… Team RTI (above) went on to finish in the top 25 of the SAE Baja Oregon while Team SPD (left) assisted with PDC prototypes. Members of all the teams have gone on to successful careers or graduate school.
Team DRIVE upgraded a test stand used by its customer, American Axle & Manufacturing (AAM), to validate the vibration performance of their automotive drivetrains. The upgrade provides a coupling device used for testing and in the test stand between the drive motor and a tested drivetrain. The device will permit the realistic testing and validation of the tested drivetrains in the absence of the rest of the vehicle machinery.

Team FIRE designed and constructed a scale prototype coupler for two variants of “O” scale model railroads. The system allows remote controlled coupling and uncoupling of railroad cars at any location through wireless communication. The design includes a coupler locking mechanism and a method to miniaturize the mechanism to operate on the smaller “HO” scale. It is the second phase of a two-year project with a patent pending.