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Tues., Dec. 2, conference to showcase 42 senior engineering projects

The 43rd Conference on Senior Engineering Design Projects – set for Tues., Dec. 2 – features 36 projects presented by 99 seniors from five CEAS departments. The event is free and open to the public; parking is available.

The 25-minute presentations are scheduled to begin between 9 a.m. and 1:30 p.m. at the Parkview Campus. All sessions begin exactly on the hour and half hour. No projects are presented during the lunch break from 12 to 1 p.m.

The Department of Mechanical and Aeronautical Engineering (MAE) is offering two concurrent sessions for 14 projects completed by 35 students: 8 presentations from 9 to 2 in D-109 and 6 from 9 to noon in D-206.

The Department of Industrial and Manufacturing Engineering (IME) has scheduled 8 projects by 24 students from 9 to 2 in D-201.

The Department of Electrical and Computer Engineering (ECE) is presenting 7 projects by 22 students from 9 to 1:30 in D-208.

From the Department of Civil and Construction Engineering (CCE), 11 students are offering 3 presentations between 9:30 and 11 in D-115.

Four presentations by 9 students in the Department of Computer Science (CS) are scheduled at 9 and 11 in D-204/5.

Sponsors for this semester’s projects include the following: AC Foundry, Decco Software, Diagnostic Systems, Associates, Eaton Corporation, eInternet Design, Fantom Racing, FEMA Corporation, Frank’s Shoe Parlor, Kelen

ECE... To create a printed circuit board to be used in an amplification and stimulation system for neural studies, EE seniors Evan Dalek (left) and Troy Caruso built the circuit on a breadboard, verified circuit operation, and then designed the printed circuit board. The third EE senior SEDP member is Eric Jones. Advisors are Drs. Brad Bazuin, John Gesink, Damon Miller, and Frank Severance. Presentation set for 11 a.m. in D-208.

Sales Consulting, LLC, Parker Hannifin Corporation, Stryker Medical, and Whirlpool Corporation.

About 30 faculty and administrators are serving as advisers for one or more projects. Professors chairing the various sessions are Dr. Hobo Cai (CCE), Dr. John Kapenga (CS), Dr. John Gesink (ECE), Dr. Betsy Aller (IME), Drs. Rameshwar Sharma and Pnina Ari-Gur (MAE), and Drs. Claudia Fajardo and Christopher Cho (MAE).

IMA... To test the feasibility of thrust vectoring on an unmanned aerial vehicle to reduce take-off distance are (from left) ME senior Curtis Trinkle, Dr. Kapseong Ro, project advisor, AE senior Travis lott, and Taesunguk Kuk, graduate student. The project will be presented at 10 a.m. in D-206.

IME... To improve quality in foundry processes are (from left) MFT senior Ron Davis (left), Dr. Sam Ramrattan, project advisor, and MFT senior Mike Horvath. The third member of the SEPP is UEM senior Alex Hiday. The project can be seen at 9:30 a.m. in D-201.

A complete schedule of project presentations is available at http://www.wmich.edu/engineer/senior-design-conference.htm For more information about the conference, call Tamara Bergman at (269) 276-3248.