CEAS e-news 04.03.2007

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April 17 conference to showcase 71 senior engineering projects

The 40th Conference on Senior Engineering Design Projects – set for Tues., April 17 – features 71 projects presented by 185 seniors who represent programs in seven CEAS departments. The 25-minute presentations are scheduled between 9 a.m. and 4:30 p.m. at the Parkview Campus. No projects will be presented during the lunch break from 12 to 1 p.m. All sessions begin exactly on the hour and on the half hour.

For their senior engineering design project, electrical engineering seniors install wiring for a robotic vision system for the FIRST robotics competition. (front left) Mike Powsiad from Ann Arbor, Faris Khawandeh from Jordan, and Noumoussa Tounkara from Mali. Advisor for the project is Dr. Ikbas Abdel-Qader and the FIRST project advisor is Dr. Tarun Gupta.

The Department of Mechanical and Aeronautical Engineering (MAE) is offering three often concurrent sets of sessions to accommodate 18 projects from 9 to 11:30 a.m. in C-122 and C-123 and from 9 a.m. to 2:30 p.m. in D-115.

The Department of Industrial Design will present 13 projects from 9 a.m. to 4:30 p.m. in D-109. The Department of Computer Science (CS) plans nine project presentation from 10 a.m. to 3:30 p.m. in D-206. The Department of Electrical and Computer Engineering (ECE) will present nine projects from 9 a.m. to 2:30 p.m. in D-204/5.

The Department of Industrial and Manufacturing Engineering (IME) has scheduled eight presentations from 9 a.m. to 2 p.m. in D-201. The Department of Paper Engineering, Chemical Engineering, and Imaging (PCI) offers eight presentations from 11 a.m. to noon in D-202 and from 1 to 4 p.m. in D-208. The Department of Civil and Construction Engineering (CCE), is providing six projects from 9 a.m. to noon in D-208.

Corporate sponsors for the projects include Aeromobile, Inc.; Allgresso Racing; Armstrong International, Inc.; Autocam – Pax; Consumer's Energy / Nuclear Management Company; Cytec Industries, Inc.; Dana Corporation; Dragun Enterprises; Duncan Aviation; Eaton Filtration, LLC; Graphic Packaging International; Haworth – Design Studio; Hospital Network Healthcare Services; Humphrey Products Company; Invensys Controls; JKK Consulting, LLC; Landscape Forms; Metal Technologies; Michigan Department of Transportation; Kalamazoo Transportation Service; New Concept Products; ND Designs; Pfizer, Inc.; Slingshot Bicycles; Stryker Medical; TechCare-TronLabs; Texas Instruments, Inc.; Tiger Studio Design; and ToughCoat Custom Powder Coating LLC..

About 50 faculty and administrators are serving as advisors for the projects. Some are serving on several projects. Professors chairing the various sessions are Dr. Sherif Yehia (CCE); Dr. John Kapenga (CS); Dr. John Gesink (ECE); Dr. Roman Rabiej (ID); Drs. Betsy Aller and Bob White (IME); Drs. Bade Shrestha, Rameshwar Sharma, Iskender Sahin, Javier Montefort, Christopher Cho, and Koorosh Naghshineh (all MAE); and Dr. Peter Parker (PCI). For more information about the conference, call Laura Decker at 269-276-3248.

Anthony Serge, a senior in manufacturing engineering technology from Novi, analyzes plastic parts in a senior design project in which he, Matt Dawson, and Ryan Miller studied cooling effectiveness in plastic injection molding. Advisors for the project are Dr. Paul Engemann and IME graduate assistant Brian Sather.