

Center for e-Design

IT-Enabled Design and Realization of Products and Systems

A National Science Foundation Industry/University Cooperative Research Center

WELCOME

Welcome from the Center Director

I am pleased to welcome you to this issue of the Center for e-Design newsletter. You may have noticed that our newsletters are shorter but are being distributed more frequently than in the past. Our aim is to give snippets of interest to readers and communicate more frequently. Industry members, please send us your news. We'd be delighted to share it with the larger community.

Best wishes,
Janis

NEW GRAD CERTIFICATE

Penn State offers new graduate certificate in additive manufacturing

Initiated by industry demand for trained experts in additive manufacturing and design for additive manufacturing, Penn State is offering a new graduate certificate program in Additive Manufacturing and Design (AMD) through Penn State World Campus. The new 12-credit certificate provides a springboard for engineers to build a strong foundation in a thriving field. >>



RESEARCHER AWARDS

Grosse receives Distinguished Service Award from ASME

UMASS-Amherst Professor Ian Grosse of the Mechanical and Industrial Engineering Department received the Distinguished Service Award from the Computers and Information in Engineering (CIE) Division of the American Society of Mechanical Engineers (ASME). >>



NEW RESEARCH FACILITY

University at Buffalo-SUNY launches Fabrication Factory

On November 8, University at Buffalo - SUNY launched the 4,400 sq. ft Fabrication Factory, the third new facility of the Sustainable Manufacturing and Advanced Robotic Technologies (SMART) Community of Excellence. The SMART Fabrication Factory is a large-scale prototyping facility whose mission focuses on developing collaborative research opportunities across scales. The factory provides space and instrumentation to build full scale and testable prototypes, including equipment such as a OMAX Maxiém 5-axis water jet, Universal Laser Systems laser cutter, and a kiln capable of reaching high temperatures for advanced materials development. The Fabrication Factory complements active research programs in advanced manufacturing, artificial intelligence, autonomous systems, co-robotic workspaces, and innovative material design. Using motion capture systems, robotics and prototype manufacturing facilities, and fabrication equipment, faculty and students in SMART are forging innovative and convergent research collaborations with academic and industrial partners.



DESIGN AND MANUFACTURING



Intelligent Design and Manufacturing Panel presents challenges and opportunities

Janis Terpenney, Peter and Angela Dal Pezzo Department Head of [Industrial and Manufacturing Engineering](#), Penn State, and Dan Finke, assistant research professor, product engineering, [Applied Research Laboratory](#), Penn State, moderated a panel discussion on the future of intelligent design and manufacturing at the [Penn State Materials Day 2018](#) on October 25.

Conference participants discussed the growing opportunities and challenges when implementing intelligence throughout the value stream, and focused on the industry/university partnership roles transitioning research to practice. Panelists included Mike Warburton, vice president, technology integration and strategic accounts, [Belcan](#); Bruce Kramer, senior advisor, division of civil, mechanical, and manufacturing innovation, [Raytheon Integrated Defense Systems](#); Hui Yang, associate professor of industrial and manufacturing engineering, Penn State; and Magi Azer, chief technology officer, [REMADE Institute](#).

CALENDAR

Save the Date: April 24, 2018
Spring Industrial Advisory Board Meeting

Academic partners include: Brigham Young University, Iowa State University, Oregon State University, Penn State, University at Buffalo, University of Massachusetts-Amherst, and Wayne State University



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