

2011

Educating the Engineer of 2020 Workshop

Prevention through Design:
Designing a Safer Tomorrow
through Engineering Today



Co-sponsors



Tuesday, September 20, 2011
302/304 Stewart Center, Purdue University

Please RSVP for the Workshop and/or lunch to events@purdue.edu and indicate if you will attend the workshop and lunch or workshop only (there are no fees to attend the workshop). Thank you.

Program Chairs

Michael Harris, Professor Chemical Engineering, Associate Dean, College of Engineering, & Co-Chair, Engineer of 2020 Committee

Peter Meckl, Professor of Mechanical Engineering, & Co-Chair, Engineer of 2020 Committee

James McGlothlin, Associate Professor of Health Sciences, Director: Graduate Program in Occupational & Environmental Health Sciences

Craig Miller, Professor of Computer Graphics Technology, College of Technology



Prevention through Design Innovation Competition

The Prevention through Design Innovation Competition is a chance for teams of students to design innovative solutions to safety and health concerns in the workplace. Application areas include manufacturing, chemical processes, health care, and environmental concerns.

This competition is being sponsored by the Engineer of 2020 Committee within the College of Engineering, as well as the National Institute for Occupational Safety and Health. It provides students with great opportunities to explore the human side of engineering practice.

If you're interested, the first step is to assemble a team of students with a faculty advisor/mentor. This could be on your own, seeking out a faculty advisor, or it could be as part of a design project course. Once your team is assembled, you should register on the [E2020 website](#).

Final presentations of completed projects are due as email attachments by September 10, 2011.

Receive Awards for Prevention through Design Competition

Awards will be given to teams based on judges' ranking of their projects. Winners will be featured at the upcoming Engineer of 2020 Workshop on Prevention through Design on September 20, 2011. All student team projects will be able to describe their ideas during a poster show over lunch.

If you have any questions about this competition, please contact Peter Meckl at meckl@purdue.edu

Agenda

Educating the Engineer of 2020 Workshop

Prevention through Design:
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8:00 am
Continental Breakfast

8:30 – 8:45 am

Welcome: Peter Meckl, Professor of Mechanical Engineering, and Co-Chair, Engineer of 2020 Committee

Opening Remarks: Leah Jamieson, John A. Edwardson
Dean of Engineering

Opening Remarks: James D. McGlothlin,
Associate Professor of Health Sciences, Director: Graduate
Program in Occupational & Environmental Health Sciences

8:45 – 9:45 am

Paul Schulte and Donna Heidel, NIOSH
Overview of Prevention through Design National Initiative
PtD in Engineering Education
PtD in Engineering Textbooks

9:45 – 10:00 am
Break

10:00 – 10:45 am

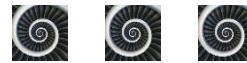
Keynote Presentation: Deborah Grubbe, President &
Owner, Operations & Safety Solutions, LLC

10:45 – 11:30 am

Keynote Presentation: Dennis Warner, President & CEO,
Aero Engine Controls, LLC

11:30 am – 1:00 pm

Lunch & Poster Session: 2010 & 2011 Engineer of 2020
Seed Grant Awardees
PtD Student Competition Posters
PMU Faculty Lounges



1:15 – 2:15 pm

Describing PtD Curriculum Activities:

Invited Speaker: Wayne S. Maynard, Technical Director,
Ergonomics & Tribology, Liberty Mutual Research Institute for
Safety

Invited Speaker: Deborah Young-Corbett, Assistant
Professor, Department of Civil and Environmental
Engineering, Virginia Tech

2:15 – 3:15 pm

Panel of Faculty describing PtD Activities:

Moderator: Michael Harris, Professor chemical Engineering,
Associate Dean, College of Engineering, & Co-Chair,
Engineer of 2020 Committee, (featuring ABET/PtD
engineering education modules)

Discussion

3:15 – 3:30 am

Break

3:30 – 4:30 pm

Panel of Faculty & Students describing PtD projects:

Moderator: Craig L. Miller, Professor of Computer Graphics
Technology, College of Technology

Discussion

4:30 pm

Closing Remarks – Next Steps in PtD and Universities

Paul Schulte, NIOSH

Leah H. Jamieson, John A. Edwardson Dean of Engineering