Saturday, 2 October 2010

10:00 AM - 5:00 PM Pre-conference Copper Country Tour (meet in lobby of Best Western)

6:00 PM Dinner (@Miscowaubik Club in Calumet, dessert at Sheryl’s (meet in lobby of Best Western at 5:30 pm)

Sunday, 3 October 2010

8:00 - 10:00 AM Registration (Conference Room, Best Western Hotel)

9:00 AM – 5:00 PM Pre-conference Workshop: A Paradigm to Support the Synthesis of Geometric Libraries through Freehand Sketching by Diarmaid Lane and Niall Seery, University of Limerick, Ireland (meet in lobby of Best Western by 8:40 am for transport to Michigan Tech)

10:00 AM - 5:00 PM Pre-conference Copper Country Tour (meet in lobby of Best Western Hotel)

5:00 - 7:00 PM Registration (Conference Room, Best Western Hotel)

5:30 - 7:00 PM Executive Meeting (Conference Room, Best Western Hotel)

7:00 - 10:00 PM Media Showcase and Welcome Reception, Music by the Pasi Cats, 8 – 10 pm (Conference Room, Best Western Hotel)

Getting Started Publishing in the Online EDGJ
Robert Chin, Kathy Holliday-Darr, and Nancy Study, East Carolina University, Penn State Erie, The Behrend College, Virginia State University

Development of EDGD Website Automated Learning and Assessment Resources
A. Varricchio, M. Kelly, J. Donovan, J. O’Donnell, R. Kettner-Polley, J. Smith, N. Bertozzi (Daniel Webster College), Ted Branoff (North Carolina State University), and Marie Planchard (Dassault Systemes SolidWorks, Corp.)
**Monday, 4 October 2010**

All events on Monday will be in the conference room of the Best Western Hotel.  
*Select papers that were presented in the Design in Engineering Education Division at the 2010 ASEE Annual Conference were invited to be presented at the 65th EDGD Midyear Conference.*

8:00 - 10:30 AM Registration

9:00 - 9:15 AM Welcome, Sheryl Sorby, Midyear conference site chair, and Tim Schulz, Dean of College of Engineering, Michigan Tech

9:15 - 10:00 AM Keynote Address: "It's been 40 years... A perspective on where we've been, where we are and where we may be headed next" by John Baker, Product Design Solutions of SIEMENS PLM Software Inc.

10:00 - 10:30 AM Break. Exhibits open

10:30 AM - 12:00 PM Technical Session I: *Applications in Solid Modeling*, moderated by Aaron Clark, North Carolina State University  
**The Wireframe Model – Showing 3D Structure with Open Space**  
Andrew C. Kellie, Murray State University  
**Relational Geometry in Surface-driven Modeling**  
Patrick Connolly, Craig Miller, Paul Frische-Mouri, Mark Garety, Cameron Isolampi, and Thomas VanNortwick, Purdue University  
**Implementing Ontology-based Information Sharing in Product Lifecycle Management**  
Dillon McKenzie Veal, Nathan W. Hartman, and John Springer, Purdue University  
**Results of EDGD Name Change Survey**  
Mary Sadowski, Purdue University

12:00 – 1:30 PM Business Lunch

1:30 – 3:00 PM Technical Session II: *Curricular and Pedagogical Approaches*, moderated by Brett Hamlin, Michigan Tech  
**Pedagogical Challenges Facing Design and Communication Graphics**  
Niall Seery, Diarmaid Lane, and Donal Canty, University of Limerick  
*The Engineer: A Tree or a Product?* * DEED invited paper  
Andrew Trivett, University of Prince Edward Island  
* First-Year and Capstone Design Projects: Is the Bookend Curriculum Approach Effective for Skill Gain?* * DEED invited paper  
Daria Kotys-Schwartz, Daniel Knight, Gary Pawlas, University of Colorado, Boulder  
**Understanding How Students in a Face-to-Face Engineering Graphics Course Utilize Online Instructional Resources**  
Theodore Branoff and Alice Scales, North Carolina State University

3:00 – 3:30 PM Break
3:30 – 5:00 PM Technical Session III: *3-D Applications*, moderated by Holly Keyes Ault, Worcester Polytechnic Institute

*Maximizing the Impact of Creative and Innovative Activities within the Constraints of Defined Education Structures* \( \textit{DEED invited paper} \)

Niall Seery, Donal Canty, and Ronan Dunbar, University of Limerick

**Extending the Concurrent Engineering Design Graphics Paradigm to 3D Scanning**

Thomas Krueger and Kendall Berns, University of Texas at Austin

**Modifying a Pumping System in a First-Year Engineering Design Project**

Amber Kemppainen, Namrata Jason, Gretchen Hein, Michigan Tech

**Augmented Reality Effectiveness in Advertising**

P. Connolly, C. Chambers, E. Eagleson, D. Matthews, and T. Rogers, Purdue University

5:00 – 6:00 PM Registration (Conference Room, Best Western Hotel)

6:00 - 9:00 PM Delights of Downtown Houghton

**Tuesday, 5 October 2010**

7:00 - 8:00 AM Registration (Conference Room, Best Western Hotel)

8:00 - 9:00 AM Relocate to Copper Harbor Keweenaw Mountain Lodge

**8:00 am departure from lobby of Best Western Hotel**

9:00 - 9:30 AM Break

9:30 - 11:00 AM Technical Session IV: *Improving STEM Diversity and Student Success*, moderated by Nick Bertozzi, Daniel Webster College

*High School Enterprise: Introducing Engineering Design in a High School Team Environment* \( \textit{DEED invited paper} \)

Doug Oppliger and Jean Kampe, Michigan Tech

**Long-term Impact of Improving Visualization Abilities of Minority Engineering and Technology Students: Preliminary Results**

Nancy Study, Virginia State University

**Longitudinal Analysis of Spatial Skills Training in Engineering Graphics**

Dawn Blasko and Kathy Holliday-Darr, Penn State Erie, the Behrend College

**Long-term Results from Spatial Skills Intervention among First-year Engineering Students**

Sheryl Sorby and Norma Veurink, Michigan Tech

11:00 AM – 12:30 PM Lunch, Keynote Address “Engineering Design: The Paradigm Shift” by Tim Thomas of PARTsolution, LLC

12:30 PM Shuttle leaves Keweenaw Mountain Lodge for airport (CMX 2:45 pm flight)
12:30 - 2:00 PM Technical Session V: *Graphics on the Horizon*, moderated by Tim Sexton, Ohio University

* Innovative Conceptual Engineering Design – A Template to Teach Innovative Problem Solving of Complex Multidisciplinary Design Problems*  
  Charles Camarda, NRY-Poly, Sven Bilen, Pennsylvania State University, and Olivier de Weck, MIT

Using Solid Modeling in High School Mathematics Instruction: A Professional Development Partnership  
  Kevin Devine, Chris Merrill, Josh Brown, and Ryan Brown, Illinois State University

Freehand Sketching in a Digital Image Culture  
  Diarmuid Lane, Niall Seery, and Seamus Gordon, University of Limerick

2:00 - 2:30PM Break.

2:30 - 6:00 PM Tour of Copper Harbor Sites

6:00 - 8:00 PM Awards Banquet with Guest Speaker Larry Lankton, Professor, Social Science Department of Michigan Tech (Harbor House, Copper Harbor)

**Wednesday, 6 October 2010**

8:30 AM - 12:00 PM  Meet in Best Western Lobby at 8:10 am for transportation to Michigan Tech where both workshops will be held.

Workshop 1: *Introduction to Siemens UG/NX* by John Baker, SIEMENS (Erie Lab, 122 ME-EM building)

Workshop 2: *PART Solutions Product Suite* by Tim Thomas, PARTsolutions LLC (Ontario Lab, 125 ME-EM building)