

schedule at a glance



SUNDAY

2:00 – 5:00 pm Poster Sessions / Exhibit Setup
 2:00 – 5:00 pm Three-day Strands/Day One: Additive Manufacturing and Materials Science Forum
 5:30 – 6:30 pm Reception and Welcome (Student Life Center)

MONDAY

8:30 - 9:30 am Greeting and Chancellor's Welcome – Keynote (Student Life Center)
 10:00 - 10:50 am Concurrent Sessions
 11:00 - 11:50 am Concurrent Sessions
 12:00 - 1:00 pm Lunch and Keynote (Student Life Center)
 1:15 - 2:00 pm Concurrent Sessions
 2:00 – 4:00 pm Three-day Strands/Day Two: Additive Manufacturing and Materials Science Forum
 2:15 – 3:00 pm Concurrent Sessions
 3:00 – 3:15 pm Afternoon Break– Poster Sessions / Exhibits / Networking
 3:15 – 4:00 pm Concurrent Sessions
 4:10 – 5:00 pm Concurrent Sessions
 Visit the Poster Sessions and Exhibits
 6:00 – 9:00 pm Evening Presentation and Banquet (Student Life Center)

TUESDAY

8:10 – 8:50 am Greeting and Chancellor's Welcome – Keynote (Student Life Center)
 9:00 – 10:00 am Concurrent Sessions
 10:15 – 11:15 am Concurrent Sessions
 11:15 am – 12:15 pm Box Lunch
 12:30 – 4:00 pm Concurrent Sessions
 12:30 – 4:00 pm Three-day Strand/Day Three: Materials Science Forum
 1:45 – 2:30 pm Concurrent Sessions
 2:00 - 4:00 pm Three-day Strand/Day Three: Additive Manufacturing
 2:30 – 2:45 pm Afternoon Break - Poster Sessions / Exhibits / Networking
 2:45 – 3:30 pm Concurrent Sessions
 Visit the Poster Sessions and Exhibits
 4:15 – 4:30 pm Evaluations, Drawings, NEW 2013 and Adjourn

WEDNESDAY

9:00 – 11:00 am Industry Tours

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| <p>Registration – Technology Center Sunday, 12:00 – 5:00 pm Monday, 9:30 am – 5:00 pm Tuesday, 8:50 am – 4:00 pm</p> | <p>Registration – Student Life Center Sunday, 5:00 – 6:30 pm Monday, 7:45 am – 9:15 am; 6:00 - 9:00 pm Tuesday, 8:00 am – 8:45 pm</p> |
| <p>Exhibits Monday, 9:30 am – 5:45 pm Tuesday, 9:00 am – 4:30 pm</p> | <p>Shuttle Bus Departs from Holiday Inn to Events and Sessions Sunday: 12:30 pm, 1:15 pm, 4:15 pm, 5:00 pm Monday, 9:30 am Tuesday, 7:45 am Wednesday: 9:00 am</p> <p>Shuttle Bus Departs from Events and Sessions to Holiday Inn Sunday: 6:45 pm Monday: 9:30 pm Tuesday: 4:45 pm</p> |
| <p>All sessions and events are held at Ivy Tech Community College–Northeast North Campus, 4900 St. Joe Rd., Fort Wayne, IN</p> | |

agenda

sunday
November 4, 2012

See Shuttle Bus Schedule on Page 4

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| 12:00 pm - 5:00 pm | Registration | Registration – Ivy Tech Community College Technology Center | |
| 2:00 pm - 5:00 pm | | Poster Sessions / Exhibit Setup | |
| 2:00 pm - 5:00 pm | | Introduction to Additive Manufacturing Strand Three-day Strand/Day One CAD and Scanning / Design <i>Room TC1440</i> | Materials Science Forum Strand Three-day Strand/Day One Workshop on Simple Labs and Experiments <i>Room TC1528</i> |
| 5:00 pm - 6:30 pm | | Registration – Ivy Tech Community College Student Life Center (Commons) Reception and Welcome from Chancellor Jerrilee K. Mosier, Ed.D., Ivy Tech Community College and President Jean Hernandez, Ed.D., Edmonds Community College | |
| 6:45 PM | | Shuttle Bus departs Ivy Tech Community College Student Life Center for Holiday Inn | |

monday
November 5, 2012

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| | Breakfast on your own | | | | | |
| 7:30 AM | Shuttle Bus departs Holiday Inn for Ivy Tech Community College Technology Center | | | | | |
| 7:45 am - 9:15 am | Registration – Ivy Tech Community College Student Life Center (Foyer) (Coffee available for purchase at the Blue Bamboo Café) | | | | | |
| 9:30 am - 5:00 pm | Registration – Ivy Tech Community College Technology Center | | | | | |
| 8:30 am - 8:45 am | Greeting – Ivy Tech Community College Student Life Center (Gymnasium) Mel Cossette, MatEd and President Jean Hernandez, Ed.D., Edmonds Community College | | | | | |
| 8:45 am - 9:00 am | Welcome – Chancellor Jerrilee K. Mosier, Ed.D., Ivy Tech Community College | | | | | |
| 9:00 am - 9:30 am | Keynote Address – Chuck Carrel, Fort Wayne Metals | | | | | |
| 9:30 am - 10:00 am | Break / Walk to Sessions (Coffee provided in the Ivy Tech Community College Technology Center) | | | | | |
| 10:00 am - 10:50 am Sessions | Exhibits / Poster Sessions Open | Aaron Brown - Introducing an Undergraduate Research Project into a Materials of Engineering Course: The Design, Construction and Testing of a Jominey End-Quench Machine <i>Rooms TC1325/27</i> | Edward T. Davis - Manual Drafting Provides the Upper Hand in Obtaining a Designer's Skill with CADD <i>Room TC1555</i> | Lee B. McGetrick, Connie Jackson - The Human Factor in Carbon Fiber Manufacturing <i>Rooms TC1346/48</i> | Mary B. Satterfield - Translating Research Into the Classroom: The NIST Summer Institute for Middle School Science Teachers <i>Rooms TC1336/38</i> | |
| 11:00 am - 11:50 am Sessions | | David Bergandine, Joe Muskin - Microcontact Printing in the Classroom <i>Room TC1528</i> | Robert Parker, Tech Center Host - Ivy Tech Community College Tech Center Tour <i>Room TC1301</i> | Mark A. Palmer - Setting Standards/Criteria to Determine the Extent to Which Our Class Achieves Core Competencies <i>Rooms TC1346/48</i> | Veronica Dean - B.R.I.D.G.E. over Troubled Waters <i>Room TC1480</i> | |
| 12:00 pm - 1:00 pm | Lunch – Ivy Tech Community College Student Life Center Keynote Address – Becky Hill, National Institute of Standards and Technology (NIST) | | | | | |
| 1:15 pm - 2:00 pm Sessions | Exhibits / Poster Sessions Open | Aaron Brown - Design and Build a Torsion Testing Machine <i>Rooms TC1325/27</i> | William R. Heffner - Exploring Glass and Materials Science Through Candy and Other Common Materials <i>Room TC1528</i> | Robert Parker - LogixPro – PLC Simulation Software <i>Room TC1559</i> | Michelle Hsieh - Teaching Materials in the 21st Century <i>Rooms TC1346/48</i> | Curtis Takahashi, GERALYN Heystek, Jessie Wagner - Externship Programs: Two Approaches that Bring Relevancy into the Classroom <i>Rooms TC1930/32</i> |
| 2:00 pm - 4:00 pm | | Introduction to Additive Manufacturing Strand Three-day Strand/Day Two Building/Production Operations <i>Rooms TC1336/38</i> | Materials Science Forum Strand Three-day Strand/Day Two City of Materials <i>Room TC1357</i> | | | |

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| 2:15 - 3:00 pm Sessions | Exhibits / Poster Sessions Open | Andrew Varga - CAD/CAM For Mastercam Room TC1536 | William R. Heffner - Exploring Glass and Materials Science Through Candy and Other Common Materials, cont. Room TC1528 | Andrew G. Bell - Bringing Virtual Learning to Life at the Point of Need in Electrical Engineering Room TC1480 | Matthias W. Pliel - Building a Micro Pressure Sensor in the STEM Classroom - Part 1 Rooms TC1930/32 (Note: enter to win a free kit if attend both Parts 1 and 2) | Joe Kitterman, Brenda Cooley - Accelerated Learning Model for Technical / STEM Education Room TC1926 |
| 3:00 pm - 3:15 pm | | Afternoon Break – Poster Sessions / Exhibits / Networking | | | | |
| 3:15 pm - 4:00 pm Sessions | | Robert Parker, Tech Center Host - Ivy Tech Community College Tech Center Tour Room TC1225 | Wei Dai - Plastic Beam Deflection and Stiffness Investigation Rooms TC1325/27 (90 minutes) | Kim Grady - Conceptualizing STEM Using a Wiki Room TC1480 (90 minutes) | Matthias W. Pliel - Building a Micro Pressure Sensor in the STEM Classroom - Part 1, cont. Rooms TC1930/32 (Note: enter to win a free kit if attend both Parts 1 and 2) | Dan Cavanaugh - Do You Have a NACK for Developing Nanotechnology Education? Rooms TC1346/48 (90 minutes) |
| 4:10 pm - 5:00 pm Sessions | | Ken Sperone - Rapid Prototyping in the Heavy Truck Industry Room TC1225 (Note: Session counts as one-hour homework for Additive Manufacturing Strand) | | | Stephanie Hilton ASM/Ivy Tech Community College Material Science Camp Rooms TC1924/26 | |
| 5:00 pm - 5:45 pm | | Poster Sessions / Exhibits / Networking | | | | |
| 5:45 pm - 6:00 pm | | Walk to Banquet – Ivy Tech Community College Student Life Center Gymnasium | | | | |
| 6:00 pm - 9:00 pm | Registration – Ivy Tech Community College Student Life Center Gymnasium Evening Presentation and Banquet – Ivy Tech Community College Student Life Center Chancellor Jerrilee K. Mosier, Ed.D., Ivy Tech Community College and President Jean Hernandez, Ed.D., Edmonds Community College Thomas Singer, Doug Hunt – Laser Engraving Workshop | | | | | |
| 9:30 PM | Shuttle Bus departs Ivy Tech Community College Student Life Center for Holiday Inn | | | | | |

tuesday

November 6, 2012

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| | | Breakfast on your own | | | | |
| 7:45 AM | | Shuttle Bus departs Holiday Inn for Ivy Tech Community College Student Life Center | | | | |
| 8:00 am - 8:45 am | | Registration – Ivy Tech Community College Student Life Center (Coffee available for purchase at the Blue Bamboo Café) | | | | |
| 8:50 am - 4:00 pm | | Registration – Ivy Tech Community College Technology Center | | | | |
| 8:10 am - 8:20 am | | Welcome – Ivy Tech Community College Student Life Center Gymnasium Frank Cox, Edmonds Community College, President Jean Hernandez, Ed.D., Edmonds Community College, Chancellor Jerrilee K. Mosier, Ed.D., Ivy Tech Community College | | | | |
| 8:20 am - 8:50 am | | Keynote Address – Ivy Tech Community College Student Life Center Gymnasium Tia Benson Tolle, Boeing Commercial Aircraft | | | | |
| 8:50 am - 9:00 am | | Break / Walk to Sessions (Coffee provided in the Ivy Tech Community College Technology Center) | | | | |
| 9:00 am - 10:00 am Sessions | Exhibits / Poster Sessions Open | Robert J. Townsend - Rapid Prototyping: Your Ideas Become Reality Room TC1400 | Robert Parker - Schematic Design with AutoCAD Electrical Room TC1480 | Patrick H. Buesching - Using 80/20® Modular T-Slot Framing to Teach Technical Concepts and as a Project-Based Learning Tool Rooms TC1934/40 (90 minutes) | Matthias W. Pliel - Building a Micro Pressure Sensor in the STEM Classroom - Part 2 Rooms TC1930/32 (Note: enter to win a free kit if attend both Parts 1 and 2) | Donna Lange, Myra Pelz, Ann Hager - Applying Universal Design Principles in a Mainstreamed Classroom Room TC1926 |
| 10:15 am - 11:15 am Sessions | | Jorge Camacho Graphene Transistor Fabrication and Testing Room TC1355 | Robert Parker, Tech Center Host - Ivy Tech Community College Tech Center Tour Room TC1301 | | | Robert L. Mott Integration of Materials Instruction in the Field of Manufacturing Room TC1926 |

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| 11:15 am - 12:15 pm | Box Lunch – Ivy Tech Community College Technology Center / Poster Sessions / Exhibits / Networking | | | | |
| 12:30 pm - 4:00 pm | Introduction to Additive Manufacturing Strand Three-day Strand/Day Three Finishing / Post Processing 2:00 pm - 4:00 pm: <i>Rooms TC1528/TC1644</i> | | Materials Science Forum Strand Three-day Strand/Day Three 12:30 - 1:30pm: <i>TC1225 Classroom</i> 2:00 - 4:00pm: <i>SLC820 Corrosion Lab</i> | | |
| 12:30 pm - 1:30 pm Sessions | Deb Newberry, Billie Copley - Using Simple Materials and Experiments to Enhance Student Critical Thinking <i>Rooms TC1934/40 (90 minutes)</i> | Wei Dai - Exploring Plastic Foam Processing and Properties <i>Rooms TC1924/26 (90 minutes)</i> | Mary B. Satterfield - Nanomeasurements and Nanoproperties: Exploring Nanoscience <i>Room TC1345</i> | Patricia B. Roy - Vickers Microindentation Hardness Testing of Brazed Joints in Aluminum <i>Room TC1337</i> | Christian Blanc - Practical Materials and Manufacturing Lessons for the STEM Student <i>Room TC1400</i> |
| 1:45 pm - 2:30 pm Sessions | | | Robert Parker - Intro to Mechatronics <i>Rooms TC1337/TC1542</i> | Virginia L. Rhodes - Initiating & Supporting STEM Education: How to Grow a New STEM School <i>Room TC1345</i> | |
| 2:30 pm - 2:45 pm | Afternoon Break – Poster Sessions / Exhibits / Networking | | | | |
| 2:45 - 3:30 pm Sessions | Joe Muskin, David Bergandine, Carrie Kouadio - Creating a Simple and Inexpensive Rapid Prototyping System <i>Room TC1400</i> | Robert Parker, Tech Center Host - ITCC Tech Center Tour <i>Room TC1301</i> | Frank Cox - Materials Technology Education: The MatEd Website <i>Room TC1225</i> | Robert Parker Time Engineers – Math Made Fun <i>Room TC1536</i> | |
| 3:30 pm - 4:15 pm | Poster Sessions / Exhibits / Networking | | | | |
| 4:15 pm - 4:30 pm | Evaluation / Drawings/ NEW 2013 and Adjourn - <i>Room TC1225</i> | | | | |
| 4:30 pm - 5:00 pm | Break Down Exhibits and Posters | | | | |
| 4:45 PM | Shuttle Bus departs Ivy Tech Community College Technology Center for Holiday Inn | | | | |

wednesday

November 7, 2012

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| | | Breakfast on your own | |
| 9:00 AM | | Shuttle Bus departs Holiday Inn for Industry Tours (Bring your luggage if you want to go directly to the airport after the tours) | |
| 9:30 am - 11:00 am | | Tour of Leepoxy | Tour of Fort Wayne Metals |

