

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

<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

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

	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>			

2:15 - 3:00 pm Sessions	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

	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	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

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

		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

