

AFS SAND CASTING CONFERENCE



October 16 - 18, 2017 • Hilton Indianapolis Hotel & Suites, Indianapolis, IN

MONDAY, OCTOBER 16

7:00 a.m. REGISTRATION

7:30 a.m. CONTINENTAL BREAKFAST

8:15 a.m. Welcome and Opening Comments—Conference Chairs: Jeff Krause, HAI International, Westmont, IL; Steve Neltner, Imerys, Cincinnati, OH

8:30 a.m. KEYNOTE ADDRESS: A Casting Users Perspective—Expectations of the Foundries Using the Latest Technologies Ron Walling, Cummins Inc., Columbus, IN

GREEN SAND CASTING TECHNOLOGY

Session Chair: Pete Gravunder, Badger Mining Corp., Berlin, WI

9:30 a.m. History of Green Sand Testing Procedures; Brian Rachwitz, EJ, East Jordan, MI

10:00 a.m. Thermophysical Properties of Green Sands; Sairam Ravi, University of Northern Iowa, Cedar Falls, IA; Robert Tuttle, Saginaw Valley State University, University Center, MI

10:30 a.m. BREAK

11:00 a.m. Thermal Expansion Interpretation; Jerry Thiel, University of Northern Iowa, Cedar Falls, IA; Vic LaFay, Imerys, Cincinnati, OH

11:30 a.m. Mulling to Energy; David Paulsen, Jim Furness, Furness-Newburge, Versailles, KY

NOON LUNCH

1:00 p.m. What's New in Sand Testing Equipment—Computerized Sand Particle Analysis; Sara Joyce, Badger Mining Corp., Berlin, WI

1:30 p.m. What's New in Green Sand Processing Equipment; Dave Silsby, Simpson Technologies, Aurora, IL

2:00 p.m. Sand Control Software; Deepak Chowdhary, MPM Infosoft, Nagpur, Maharashtra, India

2:30 p.m. BREAK

2:45 p.m. Dynamic Green Sand Testing; Sam Ramrattan, Western Michigan University, Kalamazoo, MI

3:15 p.m. Effect of Water Contaminants on Green Sand Quality; Bo Wallace, AFS Institute, Schaumburg, IL

3:45 p.m. Reclamation of Sand and Active Clay in a Foundry; Jerry Darlington, MTI, Hoffman Estates, IL; Greg Miskinis, Waupaca Foundry Inc., Waupaca, WI

4:15 p.m. Green Sand System Control—A Foundry Perspective; Jay Zins, Dotson Iron Castings, Mankato, MN; Godfrey Sergeant, AAM, New Castle, IN; Abhishek Pathak, Textron, Inc., Muskegon, MI

5:00 p.m. RECEPTION

TUESDAY, OCTOBER 17

7:30 a.m. CONTINENTAL BREAKFAST

CHEMICALLY BONDED CASTING TECHNOLOGY

Session Chair: D.J. Couture, General Motors, Saginaw, MI; Brodie Biersner, HA International, Westmont, IL

8:00 a.m. Open Forum / Ask the Expert—Chemically Bonded Molds and Cores;
Facilitated by; Dylan Thomas, Prince International Corp., Milwaukee, WI
Experts: John Grahek, Clow Valve Co., Oskaloosa, IA; Sairam Ravi, Jerry Thiel, University of Northern Iowa, Cedar Falls, IA; Giuseppe Iorio, Naval Surface Warfare Center, Bethesda, MD; Jarek Olszak, Laempe+Reich, Trussville, AL; D.J. Couture, General Motors, Saginaw, MI; Ajax Rangel, HA Westmont, IL;

Larry Kaiser, MTI, Hoffman Estates IL; Jeff Cieplewski, Prince International Corp., Milwaukee, WI

9:00 a.m. Transverse vs Tensile Testing for Cores; D.J. Couture, General Motors, Saginaw, MI

9:30 a.m. Casting Design Rules for 3D Sand Printing; Leah Dunlay, University of Northern Iowa, Cedar Falls, IA

10:00 a.m. BREAK

10:15 a.m. Qualifying Aggregates for 3D Sand Printing; Travis Frush, University of Northern Iowa, Cedar Falls, IA

10:45 a.m. Sand Solutions That Make Sense: Dave Rittmeyer, Decatur, IN

11:15 a.m. Sand Reclamation in an Aluminum Foundry; Randy Howard, Denison Industries, Denison, TX
Timothy Purcell, Porter Warner Industries, Arlington, TX

11:45 a.m. Modeling Gas Evolution; Sairam Ravi, University of Northern Iowa, Cedar Falls, IA

12:15 p.m. LUNCH

1:15 p.m. Foundry Odors and Their Control: Inside the Foundry and at the Fenceline;
Sam Koukios, ASK Chemicals, Cleveland, OH

1:45 p.m. Inorganic Binders; Doug Trinowski, HA International, Westmont, IL

2:15 p.m. Qualifying Chemically Bonded Sand Systems Against Surface Defects Using a Casting Trial;
Sam Ramrattan, Western Michigan University, Kalamazoo, MI

2:45 p.m. Refractory Coatings and Proper Practice;
Mitch Patterson, HA International, Westmont IL;
Jeff Cieplewski, Prince International Corp., Milwaukee, WI

3:15 p.m. BREAK

3:30 p.m. Coating Related Casting Defects; Stacey Clifford, ASK Chemicals, Cleveland, OH

4:00 p.m. Optimize Core Production and Tooling Design with Autonomous Engineering;
Mauricio Velazquez Blandino, MAGMA Foundry Technologies, Schaumburg, IL
Jarek Olszak, Laempe+Reich, Trussville, AL

4:30 p.m. Benchmarking: Lessons Learned from AFS Core Room Audits; Dave Coan, Neenah Foundry, Neenah, WI; Phil Mlodzik, Badger Mining, Berlin, WI; Bill Shafer, Carpenter Brothers, Eagan, MN

5:00 p.m. Day 2 Concludes

WEDNESDAY, OCTOBER 18

7:30 a.m. CONTINENTAL BREAKFAST

ENVIRONMENTAL HEALTH & SAFETY

Session Chair: Jeff Krause, HA International, Westmont, IL

8:30 a.m. Application of DSC-MS to Assess Sand Binder Emissions; Scott Giese, University of Northern Iowa, Cedar Falls, IA

9:00 a.m. Change Management—EHS Considerations for Common Molding and Core Room Changes; Jim Schifo, Keramida, Indianapolis, IN

SPECIAL SESSION: RESPIRABLE SILICA COMPLIANCE STRATEGIES

9:30 a.m. Silica Rule Update; Tom Slavin, Slavin OSH Group, Chicago IL; Stephanie Salmon, American Foundry Society, Washington DC

10:00 a.m. Best Practices for Ventilation System Design, Operation and Maintenance; Matt Diestler, IVI North Inc., Greenville, WI

10:30 a.m. Best Practices for Dust Collection Maintenance; Dominick DalSanto, Baghouses Solutions, Las Vegas, NV

11:00 a.m. Panel; Alternate Non-Silica Materials for Core and Mold Production

Panel: Claude Krause; Carbo Ceramics, New Iberia, LA; Yuta Tokiyoshi, Itochu International, New York, NY; Cuyler Zeigler, Green Diamond, Riddle, OR; Jeff Cieplewski, Prince International Corp., Milwaukee, WI

NOON CONFERENCE CONCLUDES

PLANT TOUR

AAM

2700 E. Plum Street, New Castle, IN 47362

Bus leaves hotel 12:15 p.m. Bus returns to hotel 4:00 p.m.

(Limited space available)



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