Everything related to sand casting and 3D sand printing in one place!

AFS has combined the highly popular sand casting and additive manufacturing conferences into one big online event! Now, you can hear from leading experts on green sand casting and 3D printing without incurring any costs for transportation, hotels and meals. Using both live online and on-demand material, this conference will cover the latest advances in sand casting technologies as well as practical information that will help attendees improve their foundry processes. Learn how others are perfecting their sand casting operations and hear from founders who have successfully incorporated 3D printing into their sand casting process. This virtual conference will deploy the latest technology to deliver the highest-possible attendee experience – including the chance to submit questions and receive answers during a number of the sessions. Busy the days of the conference? No problem - all presentations will be available on demand at your convenience.

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MONDAY, AUGUST 31, 2020

KEYNOTE SESSION:
ADDITIVE MANUFACTURING: LESSONS LEARNED FROM THE COVID-19 PANDEMIC -WHERE DO AMERICAN METALCASTERS GO FROM HERE?
John Danko, Danko Arlington Inc., Baltimore, Maryland
LIVE ONLINE | 1:15 - 2:15 p.m. CT (also available on demand)

TUESDAY, SEPTEMBER 1, 2020

SESSION 1: GREEN SAND CASTING
Session Chairs:
Bryan Kluge, Imerys, Cincinnati, OH
Pete Gravunder, Badger Mining Corp., Berlin, WI

FOUNDRY CASE STUDY AND LIVE Q&A:
NEW SAND ADDITIONS FOR GREEN SAND SYSTEMS
Travis Hepfner, Cadillac Casting Inc., Cadillac, MI
Michelle Ring, Minerals Tech, Carmel, IN
LIVE ONLINE | 8:30 - 9:15 a.m. CT (also available on demand)

GREEN SAND ADDITIVES - WHY SHOULD A FOUNDRY USE THEM?
Steve Neltner, REFCOTEC, Orrville, OH
LIVE ONLINE | 9:30 - 10 a.m. CT (also available on demand)

GREEN SAND RECLAMATION
Dave Silsby, Simpson Technologies, Aurora, IL
ON DEMAND

GREEN SAND TESTING
Larry Kaiser, American Colloid Company, Hoffman Estates, IL
ON DEMAND

SESSION 2: ADDITIVE MANUFACTURING - 3D SAND PRINTING
Session Chairs:
Jerry Thiel, University of Northern Iowa, Cedar Falls, IA
Jiten Shah, Product Development & Analysis LLC, Naperville, IL

APPLICATION OF SAND 3D PRINTING FOR STAINLESS STEEL CASTINGS
Dr. Yoya Fukuda, Kimura Foundry America Inc., Shelbyville, IN
LIVE ONLINE | 10:30 - 11 a.m. CT (also available on demand)

ADVANCING DEVELOPMENTS FOR 3D CONSUMABLES - RESIN SYSTEMS, COATINGS AND CLEANERS
Kelley Kerns, HA-International, Westmont, IL
LIVE ONLINE | 11 - 11:30 a.m. CT (also available on demand)

SILICA OPTIONS REVIEW
Doug Imrie, Southern Cast Products Inc., Jonesboro, AR
ON DEMAND

PRODUCTION-SPEED 3D PRINTING WITH NEW INDUSTRY 4.0 TECHNOLOGIES
Rick Lucas, ExOne, Irwin, PA
ON DEMAND

DESIGN & MODELING OF 3D PRINTED SAND CASTINGS
Jiten Shah, Product Development & Analysis LLC, Naperville, IL
ON DEMAND

WEDNESDAY, SEPTEMBER 2, 2020

SESSION 3: CHEMICALLY BONDED MOLDS AND CORES
Session Chair:
Dr. Scott Giese, University of Northern Iowa, Cedar Falls, IA

THE JOURNEY TO SILICA COMPLIANCE WITH CERAMICS
Bill Johnston, Ellwood Engineered Castings, Hubbard, OH
LIVE ONLINE | 8:30 - 9 a.m. CT (also available on demand)

“ASK THE EXPERT” LIVE DISCUSSION; CHEMICALLY BONDED MOLDS, CORES AND REFRACTORY COATINGS (AFS CURED SAND & AGGREGATE COMMITTEE)
Sairam Ravi, University of Northern Iowa, Cedar Falls, IA;
Brodie Biersner, HA-International, Westmont, IL
LIVE ONLINE | 9:45 - 10:15 a.m. CT (also available on demand)

ADOPTION OF INORGANIC BINDERS
Kelley Kerns, HA-International, Westmont, IL; Joe Muniza, ASK, Chemicals, Dublin, OH
LIVE ONLINE | 9:45 - 10:15 a.m. CT (also available on demand)
A CASTING TRIAL TO EVALUATE VARIOUS CHEMICALLY BONDED SAND DISC-SHAPED SPECIMENS FOR SURFACE FINISH AND EROSION DEFECTS
Milan Rival, Altair Engineering, Inc., Troy, MI
ON DEMAND

SIMULATION OF THE CORE BLOWING PROCESS
Dan Coyle, Magma Foundry Technologies, Schaumburg, IL
ON DEMAND

HIGH TEMPERATURE STRENGTHS OF 3D PHENOLIC PRINTED MOLDS AND CORES
Sairam Ravi, University of Northern Iowa, Cedar Falls, IA
ON DEMAND

CERAMICS, A VALUE BEYOND OSHA PEL COMPLIANCE
Claude Krause, Carbo Industrial Technologies, Broussard, LA
ON DEMAND

SESSION 4: ADDITIVE MANUFACTURING - PRINTED HARD TOOLING

Session Chairs:
Kirk Rogers, CASE Western University, N.Lima, OH
Kip Woods, Emerson Process Management, Nevada, IA

PRINTING PATTERNS AND CORE BOXES
Clay Guillory, Titan Robotics Ltd., Colorado Springs, CO
LIVE ONLINE | 11 - 11:15 a.m. CT
(also available on demand)

PANEL: CASTING TRIALS & ANALYTICS USING DISC-SHAPED SAND SPECIMENS TO STUDY MOLD-METAL INTERFACE REACTIONS
Dr. Sam Ramrattan, Western Michigan University, Kalamazoo, MI
Jeff Cieplewski, Weaver Materiel Services, Inc.
Dr. Lee Wells, Western Michigan University, Kalamazoo, MI
Andy Pike, Mueller Co.
ON DEMAND

HIGH PERFORMANCE ADDITIVE MANUFACTURING THERMOPLASTICS FOR THE FOUNDRY INDUSTRY
Alan Franc, Techmer PM, Clinton, TN
ON DEMAND

A CONTINUED INVESTIGATION OF THE VIABILITY OF PRINTED LOST FOAM TOOLING
Marshall Miller, Flowserve Corp, Rock Springs, GA
ON DEMAND

THE APPLICATION OF ADDITIVE MANUFACTURING IN THE LOST FOAM PROCESS
Marshall Miller, Flowserve Corp, Rock Springs, GA
ON DEMAND

THURSDAY, SEPTEMBER 3, 2020
SESSION 5: ENVIRONMENTAL, HEALTH & SAFETY

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

MANAGEMENT OF ANIME EXPOSURE IN THE PUCB CORE ROOM
Jarek Olszak, Laempe-Reich, Trussville, AL
LIVE ONLINE | 8:30 - 9 a.m. CT
(also available on demand)

EHS ASPECTS OF 3D SAND PRINTING—AIR QUALITY, VENTILATION AND LIMITS ON FA
Kip Woods, Emerson Process Management, Nevada, IA
Jeff Krause, HA International, Westmont, IL
LIVE ONLINE | 9 - 9:30 a.m. CT
(also available on demand)

SAND PROCESSING METHODS SHOW REDUCTION OF RESPIRABLE SILICA FOR THE FOUNDRY INDUSTRY
Jerry Thiel, University of Northern Iowa, Cedar Falls, IA
LIVE ONLINE | 9:30 - 10 a.m. CT
(also available on demand)