

Investment Casting  
Institute's 71st Technical  
Conference & Expo



## WHAT'S BREWING

IN INVESTMENT CASTING  
OCTOBER 20-23, 2024  
Milwaukee, Wisconsin

# PROGRAM AGENDA

## Receptions

Sun. 5:30 p.m.

Tues. 6:00 p.m.

## Exposition

Mon. 2:30 p.m. - 6:00 p.m.

Tues. 2:30 p.m. - 5:00 p.m.

## SUNDAY, OCTOBER 20, 2024

3:00 p.m. - 7:30 p.m.  
**REGISTRATION**

5:30 p.m. - 7:30 p.m.  
**WELCOME RECEPTION**

## MONDAY, OCTOBER 21, 2024

7:00 a.m. - 5:30 p.m.  
**REGISTRATION**

8:00 a.m. - 8:10 a.m.  
**PRESIDENT'S GREETING**  
*Nipendra Singh, S&A Consulting  
Group, LLP, ICI Director*

8:10 a.m. - 8:40 a.m.  
**AWARD CEREMONY**  
Intern Scholarships, Innovator of The Year,  
Member Emeritus, University Casting Contest Award  
*Joseph E. Fritz, Investment Casting Institute  
Intern Scholarships  
Russ Rosmait, Pittsburg State University*

8:40 a.m. - 9:00 a.m.  
**INTERN FUNDING PRESENTATION**  
IPC Foundry Group Dip Room Innovation  
and Construction, *Mason Scott, ICI Intern*

9:00 a.m. - 10:00 a.m.  
**KEYNOTE SPEAKER**  
Casting Around the Red Tape: Experiences  
in Building Innovative Partnerships between  
the DoD and the Investment Casting  
Industrial Base *Dr. Rachel Abrahams*

10:00 a.m. - 10:30 a.m.  
**BREAK**

10:30 a.m. - 11:00 a.m.  
Insuring a Viable Workforce for the Future of  
Metal Casting  
*Gerard Thiel,  
Precision Casting Technologies, LLC*

11:00 a.m. - 11:30 a.m.  
Slurry Formulation and the Impact They Have  
On Drying Times  
*Carel Wegman, Ransom & Randolph Holland*

11:30 a.m. - 12:00 p.m.  
Eco-Friendly Investment Casting: Technical Ceramic  
3D Printing Leads the Way  
*Rouslan Svintsitski, 3D Ceram Sinto*

12:00 p.m. - 1:00 p.m.  
**LUNCH**

1:00 p.m. - 1:30 p.m.  
Latest Developments in High Pressure Heat Treatment  
of Cast Components  
*Andrew Cassese, James Kurzawa, Quintus  
Technologies LLC*

1:30 p.m. - 2:00 p.m.  
Versatility and Cost Savings Through the  
Modernization of the Wax Room  
*Aaron Phipps, MPI, Inc.; Norm Hirter, Tech Cast*

2:00 p.m. - 2:30 p.m.  
Safety & Ergonomics in the Investment  
Casting Foundry - A Panel Discussion  
*Scott Benda, Ergo Flex, Inc., Howard Pickard, LBBC  
Technologies, Stephen Murtagh, A.W. Bell Machinery  
Pty Ltd.*

2:30 p.m. - 6:00 p.m.  
**EXPO**

## TUESDAY, OCTOBER 22, 2024

7:00 a.m. – 5:00 p.m.  
**REGISTRATION**

8:00 a.m. – 8:10 a.m.  
**GREETING**

8:10 a.m. – 9:00 a.m.  
The Investment Casting Conversion Process:  
An Industry Consensus  
*Vasko Popovski, Ransom & Randolph*

9:00 a.m. – 9:30 a.m.  
Comparison of Common 3-D Printed  
Pattern Types in Investment Casting  
*Anthony Rodriguez, Atlantic C&E Corporation*

9:30 a.m. – 10:00 a.m.  
A Sustainable Melt Furnace for School and Small  
Foundry Applications *S. Coles, Coles Castings;*  
*M. Neubauer, ASU; C. Luper, ASU and Bollinger*  
*Atelier; A. Sipos, ASU; D. Hesser, ASU*

10:00 a.m. – 10:20 a.m.  
**BREAK**

10:20 a.m. – 10:40 a.m.  
16th World Conference on Investment Casting–  
Kobe, Japan, *Japan Foundry Society*

10:40 a.m. – 11:00 a.m.  
Foundry Education Updates  
*Al Torok, Yamaha Marine Precision Propellers, Inc..*

11:00 a.m. – 11:40 a.m.  
Forces Exerted on an Investment Casting Shell by a  
Printed Pattern during Autoclave De-Wax  
*Tom Mueller, Mueller Additive Manufacturing Solutions*

11:40 a.m. – 12:00 p.m.  
The Big 3 Pattern Wax Fillers – What is the  
Difference and What is Best for My Process?  
*Azhar Juhari, Randy Morss, Joshua Rinzel, REMET*  
*Corporation; Gavin Dooley, REMET UK, Ltd.*

12:00 p.m. - 1:00 p.m.  
**LUNCH**

1:00 p.m. – 1:30 p.m.  
A Case Study of Separately Molded Offset Pouring  
Basins for use in Investment Casting  
*Jorge Arellano, POK NUCOR; Evan Letourneau,*  
*MAGMA Foundry Technologies, Inc.*

1:30 p.m. – 2:05 p.m.  
Automation in the IC Industry  
*Brian Williams, Brad Witte, Signicast*

2:05 p.m. – 2:30 p.m.  
Utilizing CFD with 3D Printed Filters to Increase  
Casting Yields by Flow Optimization  
*John Stuecker, Robocasting*

2:30 p.m. – 5:00 p.m.  
**EXPO**

6:00 p.m. – 8:00 p.m.  
**RECEPTION**

## WEDNESDAY, OCTOBER 23, 2024

7:00 a.m. – 12:00 p.m.  
**REGISTRATION**

8:00 a.m. – 8:10 a.m.  
**GREETING**

8:10 a.m. – 9:00 a.m.  
IMPACT Project Review - AM Ceramic Shell  
Technology for Investment Casting  
*Paul Finelt, Concurrent Resources LLC*

9:00 a.m. – 9:30 a.m.  
Use of Additive Manufacturing at Scale in  
Investment Casting  
*Nick Serpa, John Morison, Hitchiner Manufacturing*  
*Co., Inc.*

9:30 a.m. – 10:00 a.m.  
A Fundamental Analysis into The Life of Investment  
Casting Slurries: A Longitudinal Study Using  
Advanced Analyses  
*Gavin Dooley, Alex Spence, Sareh Movahed,*  
*REMET UK, Ltd.*

10:00 a.m. – 10:20 a.m.  
**BREAK**

10:20 a.m. – 11:00 a.m.  
Surface Finish - Requirements & Inspection  
*Mark White, Impro Aerotek USA, Inc.*

11:00 a.m. – 11:30 a.m.  
Autoline: Intelligent Full Function Shell-Making Line  
*Jacquelyn Weaver, Autoline Intelligent Tech Co. Ltd.*

11:30 a.m. – 12:00 p.m.  
**AWARD CEREMONY**  
Casting Contest Awards, Best Paper Award  
*Joseph E. Fritz, Investment Casting Institute*

12:00 p.m.  
**ADJOURNMENT**  
*Joseph Fritz, ICI Executive Director*