

Investment Casting
Institute's 71st Technical
Conference & Expo



WHATS BREWING

IN INVESTMENT CASTING
OCTOBER 20-23, 2024

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,
Hall of Honor, Member Emeritus
*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

TBD

10:00 a.m. - 10:20 a.m.

BREAK

10:20 a.m. - 11:00 a.m.

Maximizing Investment Casting Process Capability
with Simulation for Design and Manufacturing
Engineering of Structural Castings
*David Schmidt, Finite Solutions Inc;
Michael Gwyn, NoRedesign.com 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
Richard Gaignon, 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
*Chad Beamer, Andrew Cassese, 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.

Vacuum Investment: Casting Key Process Parameters
To Prevent Casting Defects
Iñaki Vicario, Consarc Engineering 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
Dorian Mock, 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, Arizona
State University; C. Luper, Arizona State University
and Bollinger Atelier; A. Sipos, Arizona State
University; D. Hesser, Arizona State University*

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. – 11:40 a.m.
Understanding the Causes of Shell Cracking When
Casting Printed Investment Casting Patterns
*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 Letorneaub,
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.
Why the Digital Foundry Idea is Growing in the
Investment Casting Market
Eric Rodriguez, CAD BLU

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 a.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