



AGENDA

SUNDAY, OCTOBER 21, 2018

- 3:00 p.m. - 6:00 p.m. **REGISTRATION**
 6:00 p.m. - 7:30 p.m. **WELCOME RECEPTION**

MONDAY, OCTOBER 22, 2018

- | | | |
|-------------------------|---|---|
| 8:00 a.m. - 8:10 a.m. | WELCOME INTRODUCTION **** 65th Technical Conference & Expo 2018 | |
| 8:10 a.m. - 9:10 a.m. | Conor Cunneen
<i>Irishman Speaks</i> | Keynote Address: The Gift of GAB |
| 9:10 a.m. - 10:10 a.m. | Tim Sullivan
<i>Hitchiner Manufacturing, ICI Director</i>
Russ Rosmait
<i>Pittsburg State University,</i>
<i>ICI Academic Advisor</i> | Annual Awards Ceremonies - Scholarships, Casting Contest, Honorary Member, Hall of Honor & Innovator of the Year |
| 10:10 a.m. - 10:30 a.m. | BREAK | |
| 10:30 a.m. - 11:00 a.m. | James R. Maughan, Ph.D
<i>Schenectady Cores & Castings,</i>
<i>GE Power</i> | Paper No. 1
Development of Advanced Cores & Castings for Improved Gas Turbine Performance |
| 11:00 a.m. - 11:30 a.m. | Phil Geers, William Russell
<i>Blasch Precision Ceramics</i>
Booth 314 | Paper No. 2
Effects & Analysis of Thermal Stresses on Core Setters for Aerospace Applications |
| 11:30 a.m. - 12:00 p.m. | Scott McCausey
<i>Legacy Foam LLC. - Booth 005</i> | Paper No. 3
Next Generation Patterns: Introducing Legacy Foam Patterns |
| 12:00 p.m. - 1:00 p.m. | LUNCH | |
| 1:00 p.m. - 1:20 p.m. | Mark Post
<i>Paramelt US - Booth 306</i> | Paper No. 4
"How it's Made" - Wax |
| 1:20 p.m. - 1:50 p.m. | Conrad Holek, Harvey Fielder
<i>Paramelt US - Booth 306</i> | Paper No. 4
Investigating the Impact of Phase Change Direction on the Properties of IC Wax |
| 1:50 p.m. - 2:20 p.m. | Phil Hancock
<i>The Blayson Group Ltd. -Booth 307</i> | Paper No. 5
Innovative Wax Design to Meet the Challenges Within the Investment Casting Industry |
| 2:20 p.m. - 3:10 p.m. | Julie Markee, ICI Director
<i>Key Process Innovations</i> | Paper No. 6
A Panel Discussion About Drying: 3 Case Studies Challenging Conventional Wisdom Metaltek Int'l, Hitchiner Mfg., & DePuy Synthes |
| 3:00 p.m. - 6:00 p.m. | Expo | |

TUESDAY, OCTOBER 23, 2018

8:00 a.m. - 8:10 a.m.	John Marcin <i>Pratt & Whitney, ICI Director</i>	Collaboration Portal
8:10 a.m. - 8:40 a.m.	Dominik Roth <i>Feinguss Blank GmbH</i> Keith Fleming <i>Feinguss Blank USA</i>	Paper No. 7 Feinguss Blank, Our Approach of Know-How & Know-Why on a TiAl Application
8:40 a.m. - 9:10 a.m.	Tom Sellers <i>Doncasters Superalloys</i>	Paper No. 8 Alloy Development for Turbocharger Turbine Wheels
9:10 a.m. - 9:40 a.m.	Tony Huiber <i>Cannon-Muskegon Corporation</i> Booth 301	Paper No. 9 An Examination of the Impact of Grain Structure on Tensile Test Results
9:40 a.m. - 10:10 a.m.	Yen-Lin Han <i>Seattle University</i>	Paper No. 10 How Seattle University Plans to Revolutionize Engineering Through Industry Immersion
10:10 a.m. - 10:30 a.m.	BREAK	
10:30 a.m. - 10:50 a.m.	Sharon Weaver <i>3D Systems - Booth 003</i>	Paper No. 11 Are Printed Patterns Viable for Production?
10:50 a.m. - 11:10 a.m.	Tom Mueller <i>Mueller AMS</i>	Paper No. 12 An Investigation into the Effect of Hollowing of Printed IC Patterns to Reduce Shell Cracking in the Autoclave
11:10 a.m. - 11:30 a.m.	Dan Sokol <i>Renaissance Services, Inc. - Booth 001</i>	Paper No. 13 Revolutionary Improvements for IC through Application of 3D-Printed Ceramic Tooling & Process Aids
11:30 a.m. - 12:00 p.m.	Additive Manufacturing Discussion Panel	
12:00 p.m. - 1:00 p.m.	LUNCH	
1:00 p.m. - 1:30 p.m.	Dave Berta, Casey Wolfe, Mike Hendricks <i>Ransom & Randolph - Booth 407</i>	Paper No. 14 How Process Variables Impact Ceramic Shell Properties & Performance
1:30 p.m. - 1:40 p.m.	Nip Singh <i>S&A Consulting Group LLP. ICI Director</i>	Process Control Standards Report
1:40 p.m. - 2:10 p.m.	Will Jeffs, Richard Cook <i>Castings Technology International</i> Booth 526	Paper No. 15 Supersize My Shell
2:10 p.m. - 2:40 p.m.	Gavin Dooley, M. Everden <i>REMET UK, Ltd.</i> Manual Guerra, REMET - Booth 201 Matt Cavins, O'Fallon Casting	Paper No. 16 Advances in Shell Room Efficiency with Quick Setting Polymer Additive for Ceramic Back-Up Slurries
2:40 p.m. - 3:10 p.m.	Chris Whitehouse <i>3M - Booth 207</i> Brad DeSplinter, TPM, Inc. ICI Director Josh Faust, Tech Cast, LLC.	Paper No. 17 Transforming the Fused Silica Shell System at Texas Precision Metalcraft & Tech Cast, LLC. with 3M's Rapid Cast System
3:00 p.m. - 6:00 p.m.	EXPO	

WEDNESDAY, OCTOBER 24, 2018

8:00 a.m. - 8:10 a.m. **Technical Committee**

MSDS Report

8:10 a.m. – 8:40 a.m. **Samuel Beaudoin**
Shell-O-Matic - Booth 510
Pete Poleon
Dolphin

Paper No. 18
Advance Robotic Shell Room Management System

8:40 a.m. – 9:10 a.m. **Gerald Richard**
Magma Foundry Technologies
Booth 421

Paper No. 19
Increasing Profitability with Yield Savings Using Autonomous Optimization

9:10 a.m. – 9:40 a.m. **Jeremy Hughes**
VA Technology USA - Booth 416

Paper No. 20
Evolution & Application of Industry 4.0 on IC Smart Service of Equipment & Process

9:40 a.m. – 10:10 a.m. **Robert C. Voigt,**
Guha P. Manogharan
Pennsylvania State University

Paper No. 21
3D Printed Sand Molds – An Opportunity for Investment Casters Application of 3D Printed Ceramic Tooling & Process Aids

10:10 a.m. - 10:40 a.m. **Sergejs Spitans**
ALD Vacuum Technologies GmbH
Booth 315

Paper No. 22
New Method for a Large-Scale Levitation Melting & Casting of Titanium Parts

10:40 a.m. - 11:00 a.m. **Closing Remarks**