

48th Annual Technical Meeting & Product/Literature Exhibition

Oct. 15 - 18, 2000 Fairmont Hotel, Dallas, TX

1. **The Reclamation of Investment Casting Waxes**
H. Fielder, Remet UK Ltd.
2. **Plastic Injection Methodologies and their Application in Wax Injection**
Doug Neece, Howmet-TMP, Inc.
3. **Dimensional Issues with Investment Casting Patterns Made by Stereolithography**
Curtis Wahlgren, Suresh Jayanthi, DSM Somos; Tom Mueller, Express Pattern
4. **Material Properties for Predicting Wax Pattern Dimensions in Investment Casting**
A.S. Sabau and S. Viswanathan, Oak Ridge National Laboratory
6. **Design of Experiment**
James D. Jackson, Minco, Inc.
7. **Technical Briefs:**
 - (a) **Case History: Several Cost-Saving Conversions to Investment Castings**
J. Michael Simmons, Southern Tool Inc.
 - (b) **Quick and Easy Way to Check Dryness of Shell**
Wm. Wurster, Sure Cast Inc.
 - (c) **The Yorkaire™ Flash Fire Dewaxing Oven**
Ransom & Randolph
8. **Comparison of Crucible Refractories Used in Investment Casting**
Kevin Keyzer, Engineered Ceramics
9. **The Effect of Increased Porosity Upon the Structure and Properties of Silica Based Core Materials**
S. Jones, Paul Withey, J.W.A. Knight, Rolls Royce plc.; P.M. Marquis, School of Dentistry, Birmingham, UK
10. **Innovations in Prefired Shapes for Use in Investment Casting**
Kevin A. Carpenter, Dr. Donald Rexford, Blasch Precision Ceramics
11. **Low Cost Alternative to an All Zirconia Crucible**
Chris Matej, Engineered Ceramics
12. **Basic Tools in the Modern Dip Room**
James D. Jackson, S & A Consulting Group LLP
13. **The Effect of Slurry Viscosity and Stucco Size on Shell Properties**
Jeffrey C. Niles, Remet Corporation
14. **Process Modeling Research for Investment Casting**
J. C. Gebellin, M.R. Jolly, S. Jones, University of Birmingham
15. **Investigation of Silica and Non-Silica Binder Quality in use with Zircon and Zirconia Prime Dip Slurries**
Tom Branscomb, Buntrock Industries
16. **Remasol® Adbond® 3301 - Remet's Fastest Polymer Enhanced System**
Albert T. Bozzo, Remet Corporation
17. **Comparison of Fused Silica and Alumino-Silicate Refractory Products in Water-Based Binder Shell Systems**
Jerry D. Snow, D. H. Scott, Minco, Inc.
18. **Quality Comparison of Zircon Refractory Material**
Chris A. Fischer, Elf Atochem N.America Inc. Nip Singh, S & A Consulting Group LLP
19. **Metallurgical Problems**
 - (a) **Welding Cracks in 1025 Steel**
 - (b) **Quench Cracks in 4140 Steel**
Signicast Corporation
20. **Gases in Airmelt Investment Cast Alloys**
Steve Sikkenga, Cannon-Muskegon Corp.
21. **Optimization of Coated Abrasive Grinding Performance**
Nicholas Orf, 3M Abrasive Systems Division.
22. **Some Factors Affecting the Dimensions of Investment Castings in Production**
J. Dixon Chandley, Hitchiner Manufacturing. Co. Inc.
23. **Casting Sector Pioneering Industry-Wide Collaboration**
Thomas Wright, Fred Norris and Thomas Tom, Howmet Corporation