



## **TABLETOP EXHIBIT AND NETWORKING RECEPTION**

On Tuesday, March 3, from 5:30 to 7:00 p.m., there will be a tabletop exhibition and networking reception featuring the following exhibitors:

### **ABBOTT Furnace Company**

St. Marys, PA

[www.abbottfurnace.com](http://www.abbottfurnace.com)

ABBOTT Furnace Company is an innovator in continuous furnaces for the processing of components formed by the consolidation of powders with various binders. Product lines include mesh belt, pusher, and ceramic belt furnaces.

Specialized units for de-lubrication and sinter-hardening are also offered.

Temperature capability is up to 1600 °C (2912 °F). Atmospheres include nitrogen, hydrogen and argon, which can be blended to meet the needs of the operation. All furnaces are custom-designed and manufactured around a particular time, temperature and atmosphere relationship as required by the customer. Extensive inventory, quick fabrication turnaround and an accredited calibration lab allow for maximum uptime.

### **Carpenter Powder Products, Inc.**

Bridgeville, PA

[www.carttech.com](http://www.carttech.com)

Carpenter Powder Products provides gas atomized tool steel, stainless steel, nickel, and cobalt base powders for Metal Injection Molding (MIM), PTA, Laser, Thermal Spray, Rapid Prototyping, HIP, and Braze applications, as well as mill forms of these alloys. We have manufacturing plants in both North America and Europe.

## **CM Furnaces, Inc.**

Bloomfield, NJ

[www.cmfurnaces.com](http://www.cmfurnaces.com)

CM Furnaces has been involved in Metal and Ceramic Injection Molding for over 20 years. We manufacture both batch and continuous sintering equipment, in a large variety of sizes. We are also involved in thermal debinding, as well as catalytic debinding for the BASF feedstock. Furnaces are available in both standard and custom configurations.

## **Dynamic Group**

Minneapolis, MN

[www.thedynamicgroup.net](http://www.thedynamicgroup.net)

Dynamic Engineering designs and manufactures precision production injection molds for powder and plastic. In business since 1977, we have 30 years of experience in applying leading-edge technology to high-precision molds. Dynamic has been providing innovative solutions for powder injection molding for 20 years. Our PIM expertise encompasses the medical, dental, firearms, and automotive industries as well as other commercial industries. Dynamic has in-house tool sampling capability.

## **ELNIK SYSTEMS div of PVA MIMtech, LLC**

Cedar Grove, NJ

[www.elnik.com](http://www.elnik.com)

ELNIK SYSTEMS provides complete debinding & sintering equipment for metal injection molded parts. We feature solvent & catalytic debinding ovens removing the first stage binder. The MIM 3000 furnaces remove the second stage binder and sinter the parts to full density. Both systems have integrated loading trays eliminating the need of re-setting parts which saves time and breakage. DSH Technologies, LLC, our affiliate, can be your partner in developing any or all of the MIM process operations before you invest; use the furnaces in DSH, optimize your process, or let DSH set up your turn-key MIM operations.

## **Epson Atmix Corp.—SCM Metal Products Inc.**

Research Triangle Park, NC

[www.atmix.co.jp](http://www.atmix.co.jp)

SCM Metal Products, Inc., is the Exclusive Representative, in North and South America, for MIM powders provided by Epson Atmix Corporation, Japan. Epson Atmix provides a wide variety of high-quality alloys in particle sizes and particle shapes for the MIM industry. Alloy selection includes iron based (stainless and low alloy), nickel based, cobalt based and copper in particle sizes ranging from sub-20 micron to sub-5 micron. Recent advances in Atmix's high-pressure atomization process have made cost-competitive, finer, sub-10 micron powders available for MIM. Improvements in surface quality, dimensional stability and final density have been reported.

## **GOCERAM AB**

Molndal, Sweden

[www.goceram.com](http://www.goceram.com)

In business since 1987, GOCERAM AB developed the concept of Medium Pressure Injection Molding (MEDPIMOULD<sup>®</sup>). Supplier of complete production lines based on medium-pressure injection-molding systems with the flexible principle of CIModule<sup>®</sup> (Compact Injection Module), including low-cost mixers, injection-molding machines and rate-controlled debinding furnaces as well as supercritical carbon dioxide binder extractors. Complete machinery and product-specific technology packages for oxide and non-oxide ceramics, metals (PM) and cemented carbides. Prototype development. Sales representation for complimentary equipment and technologies. Representatives in the United States, Europe, South East Asia and India.

## **Metal Powder Report/Elsevier**

Oxford, Kidlington, UK

[www.metal-powder.net](http://www.metal-powder.net)

## **Nabertherm Inc.**

New Castle, DE

[www.nabertherm-usa.com](http://www.nabertherm-usa.com)

## **PIM International Magazine**

Shrewsbury, UK

[www.pim-international.com/](http://www.pim-international.com/)

## **PLANSEE USA LLC**

Franklin, MA

[www.plansee-usa.com](http://www.plansee-usa.com)

Schwarzkopf Technologies is now PLANSEE USA and continues to deliver the world's best furnace solutions. Schwarzkopf Technologies is known within the US and Canada as the industry leader in developing, designing, and manufacturing high temperature furnace products to perform better and last longer. As an independent subsidiary we have contributed to the success of the PLANSEE Group-going forward we will be operating jointly under one name. Our customers will be able to benefit even more from synergies generated within the Group, demonstrating our uncompromising commitment to delivering the highest quality products.

## **PLCANYWHERE.COM**

Ridgewood, NJ

[www.plcanywhere.com](http://www.plcanywhere.com)

PLCANYWHERE.COM is a MIM furnace manufacturer with extensive experience in SCADA technology. Improve performance by precise recipe implementation and trending.

## **Polymer-Chemie**

Bad Sobernheim, Germany

[www.polymer-chemie.de](http://www.polymer-chemie.de)

Polmer-Chemie was founded in 1973 and is a leading compounder with a production volume exceeding 150,000 tons of polymer compounds per year. Metal Powder Compounds is a division of Polymer-Chemie GmbH founded in 2005 specialized in the development and marketing of standard and custom-made feedstock for metal injection molding under the product name polyMIM®. All common MIM metal alloys are available as standard feedstock compounds.

The portfolio includes low alloy, stainless and super alloy feedstocks.

## Ryer, Inc.

Temecula, CA

[www.ryerinc.com](http://www.ryerinc.com)

Ryer, Inc., is a manufacturer, developer and supplier of custom and standard feedstocks for the metal injection molding industry. We offer the largest selection of MIM/PIM feedstocks in the industry. Our vast feedstock selection offers multiple choices of de-binding methods, material types, particle sizes and distributions. As a custom compounder, RYER can match your current material shrink specifications and flow characteristics. Ryer feedstocks are inspected, tested and documented to assure you receive consistent, predictable results with "batch-to-batch" repeatability. Contact Ryer today to learn how Ryer feedstocks can improve your yield, quality and the consistency of your products.

## Swagelok Technology Services Company

Solon, Ohio USA

<http://www.swagelok.com/products/sat12>

**The SAT12® Surface-Hardening Service**, also known as low-temperature colossal super-saturation (LTCSS), the SAT12 service provides heat treating for austenitic stainless steel components. In the process, carbon is diffused interstitially into the lattice structure of the stainless steel. The result is stainless steel exhibiting:

- Tool steel-like hardness
- Nickel alloy-like corrosion resistance
- High-levels of wear resistance
- Austenitic ductility
- No distortion or dimensional change
- No carbide formation
- Resistance to galling

## Thermal Technology LLC

Concord, NH/Santa Rosa, CA

[www.thermaltechnology.com/](http://www.thermaltechnology.com/)

Thermal Technology LLC is a high temperature vacuum & controlled atmosphere furnace manufacturing company. All furnace systems are resistance heated with either graphite or refractory metal. We welcome your debind/sinter needs in PIM/MIM/CIM.

## **Yuelong Superfine Metal Material Co., Ltd.**

Guangzhou, CHINA

[www.yuelong.com/cn](http://www.yuelong.com/cn)

The private company is committed to manufacturing Carbonyl Iron Powder (CIP), a versatile raw material with a variety of applications in hi-tech industries, among which metal injection molding, diamond synthesis and diamond tools included. Yuelong was founded in 2003 in Dacen Industrial Zone, Zhongshang

City, Guangdong Province, China. At present, it has a head office at Wanbocuihu Garden, Panyu District, Guangzhou and a production base occupying 10 hectares in Dayu County, Jiangxi Province. With state-of-the-art technology and strict quality assurance systems, Yuelong has a capacity of CIP 3000 MT/annually, ranking first place among peers in China. Under the trademark Yuelong Powder, the company markets Carbonyl Iron Powders worldwide. Any form of cooperation initiatives is highly appreciated.

## **ZIRCAR CERAMICS, INC.**

Florida, NY

[www.zircar.com](http://www.zircar.com)

Manufacturer and international marketer of a wide range of products used in the sintering of stronger, denser MIM/PM parts. Products include alumina fiber sintering fixtures and kiln furniture. A NEW Ceramic Infusion process produces low mass setters and fixtures with improved wear resistance leading to longer life and lower cost of ownership.

Free prototype fixtures available upon request.

Contact David Hamling/Owner at [dph@zircarceramics.com](mailto:dph@zircarceramics.com)