

Penn State Material Research Institute: Powder Processing of Metals

written by Lauri Moon | March 1, 2021

Presented by the Penn State Materials Research Institute, the Materials Spotlight Series is designed to create connections and spark discussions between industry and Penn State faculty and students that lead to productive research collaborations.

This month's installment on Powder Processing of Metals, looks at the 2-, 5-, 10-year challenges for the Powdered Metal and Powder Processing Industry, such as technical challenges for manufacturing difficult-to-produce parts, cost-effective substitution for machined components, inspection, and testing, etc. This dynamic conversation will feature introductions to different segments of the Powdered Metal supply chain and technology solution-focused, flash talks by various PSU labs working in this area.

Ten-Minute Company Presentations:

- **North American Hoganas** – Roland Warzel, Director, Technical Services – Powders for metal processing
- **Gasbarre** – Mark Saline, President – Process equipment/presses for PM processing
- **Metco Industries** – Rodney Brennan, VP – Press and sinter parts

Five-Minute Faculty Presentations:

- **Andrea Arguelles** – *Assistant Professor of Engineering Science and Mechanics – Ultrasonic NDE of powdered metal parts*
- **Allison Beese** – *Associate Professor of Materials Science and Engineering – multiscale mechanical testing of metals*
- **Todd Palmer** – *Professor of Engineering Science and Mechanics – characterization of metal powders*
- **Ram Rajogopalan** – *Associate Professor of Engineering, Applied*

Materials – cold sintering of powdered metal

- **Daudi Waryoba** – *Associate Professor of Engineering – thermo-mechanical processing of metallic materials*
- **Jason Williams** – *Assistant Teaching Professor of Engineering – manufacture of molds via 3D printing*

Webinar will conclude the event with a 30-minute Q&A and networking.

[Register](#)