



ASM
INTERNATIONAL

Cleveland
Chapter

Othmane Benafan, PhD.
Symposium Director

NASA Glenn Research Center
othmane.benafan@nasa.gov

SYMPOSIUM:

Additive Manufacturing: Fundamentals, Applications, & Business implications

TOPIC:

The ASM Cleveland Chapter is once again offering a one-day technical symposium, and this year's topic is “**Additive Manufacturing: Fundamentals, Applications, & Business implications**”.

The symposium is the Chapter's annual educational event and provides members and other interested persons the opportunity to improve their knowledge and network on the topic.



LOCATION

America Makes
236 West Boardman Street
Youngstown, OH 44503

DATE

Thursday, Nov. 9, 2023

TIME

8:00AM-5:00PM

AUDIENCE

Engineers, sales, marketing, students, teachers.

SPEAKERS AND TOPICS:

- 1) Additive Manufacturing (AM) Workshop (Instructor-led crash course ~2hr)
- 2) The state of Additive Manufacturing in Ohio, in the USA and in the World
- 3) Ohio's Additive Manufacturing Ecosystem- business outlook
- 4) Material science and AM - Rethinking the alloy development
(Advanced refractory alloys, High entropy alloys, oxide dispersion, Cu-alloys, functional materials,...)
- 5) Qualification, standards, and quality control in AM
- 6) Additive manufacturing in-situ monitoring
- 7) Additive manufacturing feedstock and supply chain
- 8) Education and Educators: Future Workforce empowerment

Talks should provide an overview of the topic, local involvement in the field, state-of-the art, weaknesses and deficiencies, and estimation of future trends.

EXHIBITS: In addition to talks, attendees are welcome to bring company displays and literature highlighting their contributions to this and other engineering fields. Exhibit fee is \$250

REGISTRATION: Online registration is available at the [Chapter's Website](#). Registration fee is \$100. Registrants will receive 6 hours of CEU time towards their PE license. Full time students with an ID may register for \$25. Lunch and coffee breaks are provided.

SPONSORSHIP: There are exclusive [sponsorship opportunities](#). Get your company logo on the tables, logo with URL on event website, acknowledgments, and most importantly support for your local chapter and students.

For further information, please contact:

Dr. Othmane Benafan, FASM
Tel: (216) 433-8538
othmane.benafan@nasa.gov