

Design using Additive Manufacturing Techniques and Advanced Materials for Lightweighting

Please mark your calendar for this 60-minute webinar

DATE: Tuesday, July 24, 2018

TIME: 10:00 a.m. – 11:00 a.m.

Lightweighting is of increasing importance to many manufacturing industries and their workforces. We will cover lightweighting drivers, the advent of additive manufacturing technologies and advanced materials used in lightweighting.

We will address several industries impacted by lightweighting and discuss how to increase the bottom line for your company by employing engineers and support teams that understand what lightweighting is, how to use it in different applications and how to design products that are globally competitive.

Key Topics

- Lightweighting drivers
- Industries impacted by lightweighting
- How additive manufacturing is changing the landscape of lightweighting companies
- How to design products with a lightweighting lens
- Why investments in a lightweighting infrastructure are important

Who should participate?

- ✓ Designers
- ✓ Product Engineers
- ✓ Research & Development Engineers
- ✓ Supply Chain Managers

Registration fee (for an unlimited number of participants at one phone/computer location)

1. OMA Members: **No charge**
2. Non-OMA Members: **\$39**

To register, go to [My OMA](#) at www.ohiomfg.com. (Login required; then click on Events.)

By registering for this event, you acknowledge that the organization sponsoring this event will have access to your name and contact information.

QUESTIONS? Call (800) 662-4463

Your Presenters

[Bob Bianco](#), Ph.D., FASM Senior Materials Scientist Innovation & Technology, Swagelok Company Bob earned a B.S., M.S., and Ph.D. in Metallurgical Engineering from The Ohio State University and an Engineering and Technology Management Certificate from Caltech's Industrial Relations Center. His technical background and expertise includes additive manufacturing, process metallurgy, high-temperature structural materials, materials characterization, failure analyses/investigations, and surface modifications.

[Sunniva R. Collins](#), Ph. D. Associate Professor, Mechanical and Aerospace Engineering, CWRU Sunniva joined the faculty of the Case School of Engineering at Case Western Reserve University in March 2013, where she teaches Materials, Design, and Manufacturing courses in the Department of Mechanical and Aerospace Engineering. She is also contributing to the university's initiatives in advanced manufacturing. Prior to CWRU, Collins was employed by Swagelok Company for 18 years. As senior research fellow at Swagelok Company, Collins was responsible for coordinating the company's academic and governmental research partnerships.

[Michael Heil](#), Ph.D., P.E., President, M.L. Heil Consulting Michael is an independent aerospace and defense consultant with over 40 years' experience in aerospace research, development, test, acquisition, and higher education. From 2007 to 2016, he served as President and CEO of the Ohio Aerospace Institute (OAI), a 60 person, \$17M annual budget non-profit aerospace research and educational institute with offices in Cleveland and Dayton. Prior to joining OAI, Michael served as Director, Center for Space Studies and Research at the Air Force Institute of Technology. He retired from Air Force active duty in 2005 at the rank of Colonel after serving as Director



LEARNING EVENT— LEADERSHIP/OPERATIONS

of the Air Force Research Laboratory's Propulsion Directorate with responsibilities for propulsion and power research at Wright-Patterson and Edwards Air Force Bases. A distinguished engineering graduate from the U.S. Air Force Academy, class of 1975, Michael earned a master's degree in flight structures from Columbia University on a Guggenheim Fellowship and a doctorate in aerospace engineering from the Air Force Institute of Technology. He served as Commander, Phillips Laboratory; Commander, Arnold Engineering Development Center; and Commandant of the Air Force Institute of Technology. He has served in two Air Force acquisition centers, four defense laboratories, a test center, a major command staff,

the Office of the Secretary of Defense, and the faculties of the Air Force Academy and Air Force Institute of Technology. He is a Fellow of the American Institute of Aeronautics and Astronautics.

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