

## 62nd H.R. Bergmann Memorial Seminar

Tuesday, April 11, 2023, 9am-4pm

Register [here!](#)



### ***Advances in Solidification: Materials, Processes & Manufacturing***

The Bergmann Seminar is the ASM Milwaukee Chapter's capstone technical seminar of the year and has been an annual event for the Milwaukee Chapter for over 60 years. The seminar is designed to bring renowned experts together to educate engineers involved in the many materials related industries in Wisconsin.

The topic for this year's seminar is *Advances in Solidification: Materials, Processes & Manufacturing*. The seminar will highlight topics such as alloy development, metal casting, metal additive manufacturing, simulation and Industrial IOT related to solidification processes used in production of engineering materials. The presentations by experts from industry and academia span a range of topical areas and are geared towards metallurgists, engineers and technicians in design, product development, production, and quality control fields.

This year's seminar will be held on Tuesday, April 11, 2023, from 9am-4pm at Diercks Hall Auditorium on the campus of The Milwaukee School of Engineering (MSOE).

### Program

Title	Speaker	Organization
Casting and Additive Manufacturing of Advanced Aluminum Alloys Containing Cerium	David Weiss	Retired, Eck Industries
Solidification Behavior in Additive Manufacturing	Dan Thoma	UW-Madison, Materials Science & Eng. Dept
Additive Manufacturing for Solidification Manipulation in High Pressure Die Cast Parts	Clay Rasmussen	Mercury Marine
Towards Validation of Thermo-Mechanical Finite Element Modeling of the Additive Manufacturing Solidification Process	William Musinski	UW-Milwaukee, Mechanical Eng. & Materials Sci. & Eng. Dept.
Susceptibility of Al Alloys to Hot Tearing	Sindo Kou	UW-Madison, Materials Science & Engineering
Advances in Aerospace Investment Casting	Joe Hagan	Howmet Aerospace
Microstructure and Properties of Cast High Nickel Alloys For Advanced Energy Applications	Govindarajan Muralidharan	Oak Ridge National Laboratory (ORNL)
Advances in Casting Simulation: Optimization Techniques and Novel Solutions	Evan Letourneau	MAGMA Foundry Technologies, Inc.

Cast in Steel Competition & Steel Casting Performance	Ray Monroe	Steel Founders Society of America (SFSA)
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## Event details

Date: Tuesday, April 11, 2023

Schedule: 9:00 - Registration  
9:30 - Sessions begin  
12:00 - Lunch  
1:00 - Session resume  
4:00 - Event ends (Happy Hour to follow)

Cost\* \$45 Individual ASM Members  
\$60 Nonmembers  
\$30 Employees of Chapter Sustaining Member Companies  
Free Full-time students & Gold Sustaining Member Representatives  
*\*Cost includes all food (coffee, snacks, lunch and refreshments) as well as lot parking.*

Location: Milwaukee School of Engineering  
Diercks Hall Auditorium  
1025 N Milwaukee St  
Milwaukee, WI 53202

## History of the Annual H.R. Bergmann Memorial Seminar

The Milwaukee Chapter of ASM International has held educational seminars for its members and beyond for over 60 years. The namesake of the seminar is Bob Bergmann.

Bob Bergmann received a B.S. degree in Mechanical Engineering from the University of Wisconsin-Madison in 1951, after serving actively in the U.S. Army Infantry from 1943-1946. He later completed his thesis requirement and received his M.S. degree in Metallurgical Engineering from the University of Wisconsin while employed at the Falk Corporation. He became associated with the Falk Corporation in 1951 and was Supervisor-Materials Engineering for 18 years prior to his death.



H. Robert Bergmann  
1925-1973

His responsibilities at the Falk Corporation included material specifications, materials research and development, failure analysis, the Materials Laboratory, and ultrasonic and radiographic inspections. Bob also was the Radiation Safety Officer at the Falk Corporation.

Bob was very active in the American Society for Metals-Milwaukee Chapter for 21 years, being a past Vice Chairman and serving on many committees. He also was a voting member of both the American Gear Manufacturer's Association and the American Society for Testing and Materials. Bob presented many papers to groups such as the ASM, Steel Founders' Society of America as well as universities and colleges. Subjects included heat treatment of gears, designing for quality, machinability, quenching, and design of castings for weld fabrication.

In spite of his busy schedule, Bob found time to serve his community, being very active in his church and local school activities. In addition, he was the past President of the Brookfield Players, Inc., and served as a production worker and/or actor in 15 plays. Bob enjoyed the outdoors, camping with his wife and five daughters, gardening, and projects around the home.