

Bill Jarosinski, MBA, FASM Treasurer-Elect (2026-2027)



**Bill Jarosinski, MBA, FASM
Retired Director of R&D Materials
Linde Advanced Materials Technologies, Inc.
Indianapolis, IN**

Bill recently retired as the Director of R&D Materials for Linde Advanced Material Technologies Inc. (previously known as Praxair Surface Technologies), where he was employed for almost 40 years. He completed a BS in Metallurgy and MS in Materials Engineering at Purdue University while working as an intern in coating development and an engineer in powder processing. Additionally, Bill completed his MBA with a concentration in Finance at Butler University while working full-time. His career continued with development of advanced coatings and materials for Aerospace, Transportation, and Industrial applications including Energy, Steel, and Paper. He was awarded seven U.S patents for materials and coatings each with multiple foreign equivalents.

Bill has authored technical papers included in the proceedings of the International Thermal Spray Conference and more recently peer-reviewed articles included in journals associated with materials for additive manufacturing; previously he was the technical editor of ITSSE found in ASM's Advanced Materials & Processes. Bill began his association with ASM as a Materials Advantage member in school and joined the Indianapolis Chapter in 1987 where he held assorted roles including Scholarship, Social, Treasurer, Finance and Chairman. Prior to joining the 2018 Class of ASM Fellows, he also participated at the international level working on the Membership, Marketing & Outreach Committee. Additionally, Bill serves on the Industrial Advisory Committee for Materials Engineering at Purdue University (where he was recognized as an Outstanding Materials Engineer conferred by the faculty in 2018).

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Abstract

Additive ODS (Oxide Dispersion Strengthened) Alloys for High Temperature Applications

Oxide Dispersion Strengthened (ODS) alloys have long been considered for demanding applications in aerospace, energy, and other industries. They offer several performance benefits, but availability of these alloys has been limited due to difficulties associated with the complex manufacturing process. New advancements in these materials associated with metal powder production and additive manufacturing benefit components used in extreme conditions including high temperature oxidation, corrosion and resistance to creep.

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Process Improvements for Difficult to Weld Alloys used in Advanced Manufacturing

Superalloy compositions can be separated into alloys that are weldable by standard processes and those that are more difficult and require special precautions. The subset of alloys that are more difficult to weld can be improved to benefit from new advanced manufacturing processes. Successful strategies include tighter control of the alloy composition by adjusting the minimum and maximum allowance of critical elements, adjustments to the process parameters, and the intentional modification of the microstructure for extreme conditions. Improved composition and process control allow improvements in properties for demanding applications.