

Dr. Elizabeth Hoffman, FASM Trustee (2020-2023)



**Dr. Elizabeth Hoffman, FASM
Director of Innovation and University Engagement
Savannah River National Laboratory (SRNL)
Aiken, SC**

Dr. Elizabeth Hoffman is the Director of Innovation and University Engagement at the Savannah River National Laboratory (SRNL), a U.S. Department of Energy multi-program national laboratory specializing in environmental remediation, nuclear materials processing, nuclear detection and materials characterization. Dr. Hoffman is responsible for SRNL's Laboratory Directed Research and Development Program, Postdoctoral Researcher Program, and University Engagement Program. All three innovative programs advance the state of science through collaboration and partnership.

In 2006, Dr. Hoffman joined SRNL as a researcher working on degradation of materials in extreme environments. Her research spanned a range of material systems and processes, including metallic whisker growth, nuclear waste corrosion control programs, accelerated aging of elastomeric seals and alternative materials for accident tolerant nuclear fuel applications.

Dr. Hoffman received her Ph.D. and B.S. in materials science and engineering in 2006 and 2002 respectively from Drexel University, Department of Materials Science and Engineering. She has been active in ASM International since graduate school, serving in both the Savannah River and Philadelphia "Liberty Bell" Chapters, as well as several national committees. Dr. Hoffman has been recognized as a Fellow of ASM International, as well as an ASM Silver Medal awardee. In addition to ASM International, Dr. Hoffman is active in the American Ceramics Society (ACerS).

Abstract:

A View into National Laboratory Materials Science Research

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Abstract:

National Laboratories in the United States Department of Energy (DOE) Complex study a variety of critical technical challenges through multi-disciplinary teams that often have materials science and engineering at their investigative research core. A brief introduction to the DOE National Laboratories and research successes at Savannah River National Laboratory will be reviewed. In addition, an overview of current materials science and engineering challenges and applications will be discussed. Examples may include managing an aging infrastructure, detecting challenging materials, improving energy storage systems, refining materials separations, and supporting non-proliferation efforts.

Abstract: Hopscotch Materials Science Research

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Abstract:

Geared for a “student-mindset,” a look at Dr. Hoffman’s varied materials science research journey from undergraduate to graduate school, research at a national laboratory, and even an application of materials science with her hobbies. Stories will be shared about how some opportunities were planned and some were stumbled upon. Examples will also be given on the importance of keeping an open mind and lifelong learning. Building on experiences and education will be discussed, including drawing upon connections between research projects along the way to solve problems.