



January 2022 - Our 102nd Year

ASM Virtual Technical Session

SPRINGS AND THINGS

- Speaker:** C. Richard (Rick) Gordon
Technical Director for the Spring Manufacturers Institute
Past Chairman, ASM Notre Dame Chapter
- Date:** Monday, January 17, 2022
- Time:** Login 7:00 PM, Presentation 7:30 PM
- Duration:** Approximately one hour; questions and answers to follow
- Registration:** Please contact Dave Guisbert deguisbert@aol.com by January 14, 2022.
Meeting login information will be sent to all who register.

Abstract:

Springs come in many shapes and have many purposes. In this presentation, three of the most common types - compression, extension, and torsion - will be discussed. Of key interest to the materials engineer are the material selection criteria and the failure analysis of springs that break prematurely. Material selection criteria will be reviewed, and examples of interesting spring applications and failure analysis studies will be presented.

About the speaker: C. Richard (Rick) Gordon currently serves as Technical Director for the Spring Manufacturers Institute. He has more than 45 years' experience in the steel and wire industries. Since retiring in 2016, Gordon formed an engineering, quality and technology consulting company, focusing on process optimization, best manufacturing practices, quality systems and training.

Rick previously worked at Gerdau Long Steel North America's Beaumont, Texas and Perth Amboy, New Jersey steel mills as technical service metallurgist. He also worked with the National Standard Company managing groups in the areas of R&D, quality, and process technology for carbon steel and stainless steel wire products. In addition, he worked for Baoan International Investment Co. Ltd, a Chinese trading company in Covina, California and the U.S. Steel Corporation in Chicago; Waukegan, Illinois; and Monroeville, Pennsylvania.

He is a graduate of the Illinois Institute of Technology with Master's and B.S. degrees in metallurgical and materials engineering.

Rick is the Past Chairman of the Notre Dame ASM Chapter and past District 13 representative. He is currently a member of ASM International, ASTM, TMS and Wire Association International. He is a member of the WAI Education Committee and is a session instructor for WAI's *Fundamentals of Wire Manufacturing* course.