



Foley and Brown honored by The Minerals, Metals & Materials Society

June 21, 2017

The Minerals, Metals & Materials Society (TMS) has presented awards to **Eric Brown** of the Explosive Science and Shock Physics Division and **James Foley** of Sigma Division at the TMS Annual Meeting in San Diego, Calif. The TMS named Brown a 2017 Brimacombe Medalist and honored Foley with the 2017 Alexander Scott Distinguished Service Award.

Brown's achievements

The TMS cited Brown for “distinguished contributions to advancing the field of material dynamic mechanical properties and damage processes, while providing long-standing service to TMS and the materials community.”

The TMS presents the Brimacombe medal as a mid-career award that recognizes individuals with sustained excellence and achievement in business, technology, education, public policy, or science related to materials science and engineering and with a record of continuing service to the profession. The recipient must be a current professional member of TMS, have been a member for at least five consecutive years, and may not reach his/her 50th birthday by Dec. 31 of the year in which the initial nomination is made.

Brown holds a doctorate in theoretical and applied mechanics from the University of Illinois at Urbana-Champaign and is a leader in the field of dynamic behavior of materials. He joined the Laboratory as a Director's Postdoctoral Fellow in 2003. His research has spanned fracture and damage of complex heterogeneous polymers and polymer composites for energetic, reactive, and structural applications including crystalline phase transitions, plasticity, dynamic loading conditions, and self-healing materials.

Brown is a Fellow of the Society for Experimental Mechanics and has received numerous awards for his technical achievements in solid mechanics and materials science from the DOE-NNSA, Los Alamos National Laboratory, the Society for Experimental Mechanics (SEM), The Metals Minerals and Materials Society (TMS), the Materials Research Society (MRS), American Society for Composites (ASC) and the University of Illinois. He is founding editor-in-chief for the *Journal of Dynamic Behavior of Materials*, is an executive board member of TMS, and is on the editorial board for the *Journal of Strain Analysis for Engineering Design*. He has over 100 publications with 6,300 citations.

Foley's achievements

The TMS cited Foley for “dedicated and sustained service to TMS and its members, particularly to improvements in the quality of programming at TMS annual meetings and at Materials Science and Technology conferences.”

The award is named for Alexander R. Scott, who served as executive director of TMS from 1973 until 2008. The annual award recognizes a member's devotion of time, effort, thought, and action to further TMS's mission through administrative and functional activities. It is usually presented to an individual for 10 or more years of TMS service in areas ranging from membership development to student chapters, and education and professional affairs.

Foley earned a doctorate in metallurgical engineering from the University of Wisconsin at Madison. He began working as a postdoctoral fellow at DOE's Ames Laboratory in Iowa before coming to Los Alamos in 2003. Foley leads Sigma Division's Characterization and Special Projects team, which conducts microstructural analyses of materials not containing plutonium. His research focuses on alloys, beryllium, lead-free soldering, and powder metallurgy. Foley holds a U.S. patent for nanocrystal dispersed amorphous alloys. He functioned as a trustee of AMS International from 2012-2015. He served on the TMS board twice, contributed to several committees, and advanced TMS programming.

About The Minerals, Metals & Materials Society

The TMS is a professional society of nearly 13,000 members on six continents. The organization aims to promote the global science and engineering professions concerned with minerals, metals, and materials. It connects scientists and engineers in these fields who work in industry, academia, and government positions around the world. The organization creates networking, publication, and professional development opportunities, and nurtures the next generation of science and engineering professionals through a strong student membership program in collaboration with three other professional societies.

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