

## Amy Clarke, PhD

Amy J. Clarke is an Associate Professor in the George S. Ansell Department of Metallurgical and Materials Engineering, Site Director for the Center for Advanced Non-Ferrous Structural Alloys (CANFSA), and is affiliated with the Advanced Steel Processing and Products Research Center (ASPPRC) at the Colorado School of Mines (CSM). She is also a Guest Scientist at Los Alamos National Laboratory (LANL). Her current research focuses on making, measuring, and modeling metallic alloys during processing, including x-ray, proton, and electron imaging of multi-scale solidification dynamics at national user facilities, the study of phase transformations and microstructural evolution, and non-ferrous and ferrous physical metallurgy.



Amy earned her B.S. degree from Michigan Technological University (MTU) and her M.S. and Ph.D. from CSM in Metallurgical and Materials Engineering. Prior to joining CSM, she was a Scientist and Seaborg Institute Postdoctoral Fellow at LANL and Senior Engineer – Development/Research at Caterpillar Inc. Amy has received a U.S. DOE Office of Science Early Career Research Program Award, a Presidential Early Career Award for Scientists and Engineers (PECASE) – the highest honor bestowed by the United States government on science and engineering professionals in the early stages of their independent research careers, the MTU Alumni Association's Outstanding Young Alumni Award, The Minerals, Metals, and Materials (TMS)/Federation of European Materials Societies and TMS/Japan Institute of Metals Young Leader International Scholar Awards, a TMS Young Leader Professional Development Award, and the Willy Korf Award for Young Excellence for her work on steels.

She serves on TMS Board of Directors, Argonne National Laboratory's Advanced Photon Source Users Organization Steering Committee, the Metallurgical and Materials Transactions Joint Commission, Editorial Board of Scientific Reports at nature.com, and MTU's Presidential Council of Alumnae. Amy has also served on the Association for Iron and Steel Technology (AIST) Board of Directors and as Chair of the Los Alamos Chapter of ASM International and AIST Metallurgy – Processing, Products and Applications Technology and TMS Phase Transformations Committees. She is also a member of the TMS Solidification, Shaping and Forming, ad hoc Steels, and Diversity Committees, and the lead organizer of the 2016 TMS Diversity in the Materials, Metals, and Materials Professions (DMMM2) Summit.