

Sam Corder

At NASA, Sam Corder leads a team of experts on Damage Tolerance and Fracture Control covering over 40 different projects working with all material systems. This team is tasked with evaluating a structure's ability to perform reliably throughout its service life in the presence of a defect, crack, or other forms of damage. Mr. Corder also serves as the Alternate Chair for the MSFC Fracture Control Board.

Sam Corder's main area of expertise is the qualification of additive manufacturing (AM) components for space flight applications. He has helped with the qualification of many AM spaceflight components ranging from not critical to extremely critical. He has done research for AM on porosity, effect of defects, databases, statistical methods, testing, and qualification. He helped author NASA Standard 6030 which controls AM for spaceflight applications. He was asked by MMPDS to co-chair the Emerging Technologies Task Group as well as the Materials and Machines group.

Prior to NASA, Mr. Corder worked for DMS Technologies performing aerothermal analysis, The Adaptive Structures Lab working on structural health monitoring, Mesker Door making process improvements, Boeing doing design work, and Multimetco helping with databasing.

Mr. Corder has a master's in mechanical engineering from the University of Alabama in Huntsville. He has several published works including a paper on orbital mechanics, sections of NASA-Standard-6030, sections of MMPDS Volume 2, and sections of an AIAA AM handbook.

