

Dr. Alan Byar, Sr. Structural Analysis Engineer

Dr. Alan Byar has over twenty year's experience with Boeing, performing a wide variety of structural analyses, including extensive experience with non-linear dynamic finite element analysis on both composite and metallic structures. His current research focus is virtual testing of large scale structural components, including crashworthiness and impact simulations. Dr. Byar is also currently involved in the evaluation of methods for analyzing composite damage propagation. Dr. Byar previously performed numerical simulations of crashworthiness tests that were conducted at the FAA Technical Center, Pomona, New Jersey. Test articles were sections of a Boeing 737. Simulations characterized impact response of both primary and secondary structures. He has presented several papers on research concerning numerical simulations of aircraft crashworthiness.