

Michael Gorelik, Ph.D., PMP

Chief Scientific and Technical Advisor for Fatigue and Damage Tolerance

Federal Aviation Administration

Dr. Michael Gorelik has over 30 years of experience in the areas of fatigue and damage tolerance (F&DT), probabilistic methods, advanced manufacturing, and health monitoring. He applies this expertise to the development of regulations and standards, certification of aerospace products, assessment of new technologies, training and education, and coordination of R&D programs and consortia. Dr. Gorelik supports evaluation of new technologies and research in the areas of advanced F&DT methods, Additive Manufacturing, Computational Materials, and Health Monitoring.

Prior to joining the FAA, Dr. Gorelik was an Engineering Fellow at Honeywell Aerospace, working in the areas of life prediction and structural integrity, probabilistic methods, reliability and risk assessment. He has authored or co-authored over 60 peer-reviewed papers and conference presentations, and one patent. Dr. Gorelik currently serves as the elected US National Delegate for ICAF (International Committee on Aeronautical Fatigue), and co-chairs the MMPDS Emerging Technologies Task Group (ETTg). He also serves on the public or government advisory boards for several major USG-funded R&D programs, co-chairs an industry-government-academia steering group on Computational Materials, and manages a portfolio of the FAA R&D programs focused on Continued Airworthiness issues. He is a member of several ASME, ASTM and SAE committees and steering groups. Dr. Gorelik earned a Ph.D. in Engineering Mechanics, with a minor in Materials Engineering, from the University of Illinois, and completed post-doctoral studies in Fracture Mechanics. He is a recipient of the R&D 100 Award, the NASA TGIR Award, NASA NESC Group Achievement Award, two corporate Honeywell Technical Achievement Awards, and multiple performance awards.

Michael also holds an MBA degree from the W. P. Carey School of Business (ASU), and is a certified Six Sigma Master Black Belt and Lean Expert, as well as certified Project Management Professional (PMP).