

Dr. Mark Gurvich Fellow, Structural Analysis



Biographical Profile

Mark Gurvich, Ph.D., is Technical Fellow, United Technologies Research Center (UTRC). As such, he focuses on advanced materials and structures for numerous United Technologies Corporation (UTC) applications of composites and polymers within Sikorsky, Pratt & Whitney, UTC Aerospace Systems, and Otis. In this area, he leads UTRC efforts to address challenging issues of structural integrity, including efficient computational modeling, reliability and probabilistic assessment, and experimental methods for mechanical evaluation and characterization. In addition to UTC applications, Gurvich has been leading or co-leading UTRC research efforts on composites sponsored by the Army Aviation Applied Technology Directorate (AATD), Office of Naval Research (ONR), NASA, Vertical Lift Consortium (VLC) and National Rotorcraft Technology

Center (NRTC).

Previously, Gurvich served as Principal Scientist/Engineer at UTRC. Prior to joining UTRC in 2002, he held positions as Senior Scientist/Engineer at The Goodyear Tire & Rubber Company, Akron, Ohio; Visiting Scientist, Institute of Materials Science, University of Connecticut, Storrs, Connecticut; Fulbright Scholar at Rensselaer Polytechnic Institute, Troy, New York; and Associate Professor at Riga Technical University, Latvia.

Among his many professional awards and honors, Gurvich has been recognized with the Window-on-Science Award, U.S. Air Force (1995), and numerous best papers, innovation and accomplishment awards. His research is reflected in more than 130 publications, including a technical book, 70-plus peer-reviewed papers, and seven issued or pending patents in the area of advanced materials and structures.

A member of the American Helicopter Society (AHS); the American Society of Mechanical Engineers (ASME); Rubber Division, American Chemical Society (RD, ACS), Gurvich is an Associate Editor of the Journal of AHS and is a past Chair of the AHS Structures and Materials Committee. He co-organized and co-chaired four symposia on elastomeric mechanics (RD, ACS Conferences) and two sessions on structures and materials (AHS Annual Forums). Gurvich received his Ph.D. in mechanical engineering and an M.S in civil engineering from Riga Technical University, Latvia.