

Dr. Ramesh Agarwal
William Palm Professor of Engineering and the Director of Aerospace Research and
Education Center
Washington University in St. Louis

Biography

Professor Ramesh K. Agarwal is the William Palm Professor of Engineering and the director of Aerospace Research and Education Center at Washington University in St. Louis. From 1994 to 2001, he was the Sam Bloomfield Distinguished Professor and Executive Director of the National Institute for Aviation Research at Wichita State University in Kansas. From 1978 to 1994, he worked in various scientific and managerial positions at McDonnell Douglas Research Laboratories (MDRL) in St. Louis. He became the Program Director and McDonnell Douglas Science and Engineering Fellow in 1990.

Dr. Agarwal obtained his Ph.D. from Stanford University in 1975. His earlier research focused on aerodynamic analysis and design of air and space vehicles using tools of Computational Fluid Dynamics (CFD), Computational Electromagnetics, and Multidisciplinary Design and Optimization. For past several years, his research focus has been on sustainable transportation including both the air and ground transportation. For his work on Green Aviation, he has been recently recognized with the prestigious AIAA/SAE William Littlewood lecture award on “Sustainable Aviation: Challenges and Opportunities.” In last few years, he has incorporated the ideas of sustainability in the Aerodynamics Course at Washington University. His course in Fluid Dynamics also has a strong service learning component.

Dr. Agarwal is the author and coauthor of over 300 publications. Dr. Agarwal is a Fellow of eleven societies American Association for Advancement of Science (AAAS), American Institute of Aeronautics and Astronautics (AIAA), American Physical Society (APS), American Society of Mechanical Engineers (ASME), Royal Aeronautical Society (RAeS), Society of Manufacturing Engineers (SME), Society of Automotive Engineers (SAE), Institute of Electrical and Electronics Engineers (IEEE), American Academy of Mechanics, Academy of Science of St. Louis, and World Innovation Foundation (WIF). He is a member of ASEE. He has served as a distinguished lecturer of AIAA (1996 -1999), ASME (1994 -1997), and IEEE (1994 - 2010). He has received many honors and awards for his research contributions including the ASME Fluids Engineering Award (2001), AIAA Sustained Achievement Award (2002), Missouri Academy of Science Most Distinguished Scientist Award (2004), ASME Charles Russ Richards Memorial Award (2006), Royal Aeronautical Society Gold Award (2007), AIAA Aerodynamics Award (2008), AIAA/SAE William Littlewood Lecture Award (2009), and James B. Eads Award of Academy of Science of St. Louis (2009)