STEP SENIOR TECHNICAL EXPERTS PROGRAM
ADVANCING SAFETY THROUGH SCIENCE

Jeffery Schroeder, Ph.D.

Chief Scientist and Technical Advisor for Flight Simulation Systems

Dr. Jeffery Schroeder has 35 years of experience in and extensive publications on ground and in-flight simulation, flight dynamics, control systems, cockpit displays, human factors, and air traffic management. As the FAA's Chief Scientist and Technical Advisor (CSTA) for Flight Simulation Systems, he applies technologies to create suitable flight environments, as well as the best practices on their use. He was a main contributor in the development of the FAA's rules and guidance for aircraft upset training, has trained the FAA's inspectors at the FAA Academy for upset training program approval, and he now advises scores of airlines in the development and refinement of their upset training programs. Dr. Schroeder's principal activities include aircraft upset training practices, stabilized approach refinement, and flight simulator motion cueing research.

Before joining the FAA, Dr. Schroeder spent over 20 years at the NASA Ames Research Center. While there, he conducted a variety of piloted flight simulation studies with special emphasis on motion fidelity in the world's largest flight simulator. Dr. Schroeder has taught numerous graduate and undergraduate courses in dynamics and control at Stanford and San Jose State University. He is an Associate Fellow of the American Institute of Aeronautics and Astronautics, and a Fellow of The Royal Aeronautical Society. Jeffery Schroeder earned a B.S. and an M.S. in Aeronautics & Astronautics from Purdue University. He earned his Ph.D. in Aeronautics & Astronautics at Stanford University.