



Dr. James P. Bagian

Dr. James P. Bagian has extensive experience in the fields of human factors, aviation, and patient safety and is the Director of the Center for Healthcare Engineering and Patient Safety and a Professor in the Medical School and the College of Engineering at the University of Michigan. Previously he served as the first and founding director of the VA National Center for Patient Safety and as the VA's first Chief Patient Safety Officer where he developed numerous patient safety related tools and programs that have been adopted nationally and internationally. He was a NASA astronaut for over 15 years and is a veteran of two Space Shuttle missions including as the lead mission specialist for the first dedicated Life Sciences Spacelab mission. Following the 1986 Challenger space-shuttle explosion he dove and supervised the capsule's recovery from the ocean floor, co-lead the medical investigation and was one of the leaders of the development of the Space Shuttle Escape System. He also served as the Chief Flight Surgeon and Medical Consultant for the Space Shuttle Columbia Accident Investigation Board. He currently serves as the Co-chair of the ACGME CLER Committee, the Chair of the Joint Commission's Patient Safety Advisory Group, a member of the DOD Trauma and Injury Subcommittee of the Defense Health Board, and a member of NASA's Aerospace Safety Advisory Panel. Dr. Bagian holds a B.S. degree in mechanical engineering from Drexel University and a doctorate in medicine from Thomas Jefferson University. He is a Fellow of the Aerospace Medical Association, an elected member of the National Academy of Engineering and the Institute of Medicine, and has received numerous awards for his work in the field of patient safety and aerospace medicine.

Dr. Bagian's awards include the American Medical Association's 2001 Dr. Nathan S. Davis Award for outstanding public service in the advancement of public health and the Association of American Medical Colleges' first annual Innovations Award in 2001. He also received the Frank Brown Berry Prize in Federal Healthcare which recognizes the military or federal physician who has made the most significant contribution to healthcare in the United States (2002), the Service to America Medal awarded to the federal employee who demonstrated the most significant lifetime achievement in public service (2003), the Outstanding Federal Healthcare Executive Award awarded to the senior executive who has made conspicuously outstanding contributions to Federal healthcare demonstrating superior leadership or executive management ability (2004), the inaugural Patient Safety Award from the Institute for Quality in Laboratory Medicine and the Jefferson Medical College Alumni Achievement Award (2005), the Vanguard Award for the Advancement of Patient Safety from The Doctors Company Foundation (2009), the American Astronautical Society's Melbourne W. Boynton Award for "outstanding contributions to the biomedical aspects of space flight" (2010), and most recently the 2012 Pete Conrad Patient Safety Excellence Award.



Dr. J. Victor Lebacqz

From June, 2003, to September, 2005, Dr. Lebacqz was the Associate Administrator for Aeronautics Research at the National Aeronautics and Space Administration (NASA), one of four Mission Directorates within NASA. In this position, he had overall technical, programmatic, and personnel management responsibility for all aeronautics technology research and development within the Agency. The programmatic activities were funded by a \$1.0 Billion/year budget that supports three major NASA programs, which are performed at the four Aeronautics research centers of Ames, Dryden, Glenn, and Langley. Personnel oversight of approximately 6200 civil servants at the four Aeronautics centers was a concomitant responsibility, including assigning work activities and performing strategic realignment as necessary. He served as Deputy Associate Administrator of Aeronautics and Space Technology from December 2002 to June 2003. Prior to his appointment to NASA Headquarters, Dr. Lebacqz was at the Ames Research Center since 1978, where he began as a researcher, specializing in avionics, stability and control, handling qualities, and human factors, and then held management positions of increasing responsibility as Branch Chief, Division Chief, Program Manager, Deputy Director of Aerospace, and Associate Center Director, in which duties he led or participated in a number of zero-based reviews and roles/missions studies for NASA. He was a Lecturer at Stanford University from 1982-1990, and previously worked at the Cornell Aeronautical Laboratory. From 2005 to 2006, he was on appointment at the University of California, Santa Cruz (UCSC) as a Research Fellow. Beginning in 2006, he founded VICC Associates, which specializes in executive consulting for aviation and other technology organizations, and which has clients in industry, government, and educational institutions. He is also a Principal at Deep Water Point. He was a member of the FAA's Research Engineering and Development Advisory Committee (REDAC), chairing a subcommittee on NAS Operations, from 2006-2012, is a member of the Editorial Board of the Air Traffic Control Quarterly, was a member of a National Academy of Public Administration panel to assess FAA program management capabilities, a member of a National Academies' TRB panel assessing an ATC controller workload modeling technique, and a National Academies' TRB panel assessing USDOT RD&T strategic planning. He volunteers for the American Institute of Aeronautics and Astronautics as a member of the Public Policy Committee subcommittee on Aeronautics, and as a member of the Guggenheim selection medal; he also is active in his community's Home Owners Association Board of Directors.

Dr. Lebacqz holds BSE (cum laude), MA, and Ph.D. degrees in Aeronautical Engineering, all from Princeton University. He is the author or co-author of over 50 technical reports, articles, or papers. He is a Fellow of the American Institute of Aeronautics and Astronautics (AIAA) and a Fellow of the Royal Aeronautical Society (RAeS). Dr. Lebacqz has received two individual NASA Special Achievement Awards, six NASA Group Achievement Awards, six NASA "Turning Goals Into Reality" (TGIR) awards, two NASA Ames Honor Awards (for excellence in supervision and for mentoring), the US Army Aeroflightdynamics Directorate Director's Award for Interagency Cooperation, and the ATCA Chairman's Citation of Merit Award in 2006. He has received the NASA Exceptional Service Medal, has been awarded NASA's second highest honor, the Outstanding Leadership Medal, three different times (1999, 2003, 2005), and received NASA's highest honor, the Distinguished Service Medal, in 2005. He was named a Presidential Rank Award Meritorious Executive in 2003.



Dr. Joseph Kolly

TRANSPORTATION SAFETY EXECUTIVE

Senior executive leader and manager with more than 20 years of experience in research and engineering at the supervisory and program levels, including oversight of major laboratory facilities. Expert knowledge of experimental applied research, program development and management, and accident investigation. Strong strategic and technical skill set with expertise in analyzing issues related to physical and engineering sciences, resulting in innovative solutions to improve transportation systems and safety. Experienced author and effective speaker.

PROFESSIONAL EXPERIENCE

National Transportation Safety Board (NTSB), Washington, DC

Director, Office of Research and Engineering, 2009–Present

Responsible for leadership and oversight of the office, which consists of three laboratory divisions: the materials laboratory, the recorders laboratory, and the vehicle performance laboratory; one transportation research division; and senior technical staff. Directs the office's advanced technical support and technical planning and management services for accident investigations in all transportation modes. Led the planning and coordination activities for the development and implementation of numerous advanced technology capabilities in each laboratory. Authored several publications on transportation research and accident investigation methods.

Previous NTSB Positions and Significant Achievements

Deputy Director, Office of Research and Engineering, 2004–2009

Managed and oversaw technical support activities for over 400 investigations annually.

Chief, Vehicle Performance Division, 2002–2004

Led the re-engineering and advanced development of agency computer simulation and computer animation capabilities.

National Resource Specialist, Applied Research, 2001–2002

Developed, conducted, and administered several applied research programs involving close technical collaborations with elite engineering universities, government laboratories, and corporate research facilities.

Fire and Explosion and Vehicle Performance Investigator, 1998–2001

Conducted high visibility major investigations of fire and explosion related accidents in aviation, marine, railroad, highway, and pipeline transportation modes

Calspan-University at Buffalo Research Center, Buffalo, NY

Senior Research Scientist, 1992–1998

Principal investigator and project manager for research and testing programs in the fields of fluid dynamics, thermodynamics, heat transfer, and optics. Developed, implemented, and managed programs, and reported scientific analysis for numerous government agencies and corporate entities. Authored 16 technical papers and reports concerning this work.

Operations Manager, Large Energy National Shock Tunnel Facility, 1995–1998

Responsible for daily operations of the facility. Supervised all support personnel. Conducted test scheduling and interacted with sponsors. Developed and monitored program and laboratory budgets.

MEMBERSHIPS

Chairman, Industrial Advisory Board, Department of Mechanical Engineering, Watson School of Engineering and Applied Science, State University of New York at Binghamton, 2011–Present

Member, Watson School of Engineering and Applied Science Advisory Committee, State University of New York at Binghamton, 2009–Present

EDUCATION

PhD, Mechanical Engineering, Areas: Fluid and Thermal Sciences

State University of New York at Buffalo, 1996

Awarded NASA Fellowship

BS, Mechanical Engineering, Graduated with High Honors

State University of New York at Binghamton, 1988

MAJOR AWARDS

Presidential Rank Award for Meritorious Service, 2014

Medal of Distinguished Service, Alumni Association, State University of New York at Binghamton, 2013

Founders Award, Watson School of Engineering, State University of New York at Binghamton, 2009

Department of Commerce Science and Technology Fellowship, 2006

NASA Group Achievement Award for Space Shuttle Columbia Accident Investigation, 2003

NTSB Dr. John K. Lauber Science and Engineering Award, 2002

RECENT PUBLICATIONS AND PRESENTATIONS

Kolly, J. M. 2014. “Engineering Safer Transportation at the NTSB.” Keynote Speech at the 30th Annual Flight and Ground Vehicle Simulation Course, Binghamton University, Watson School of Engineering and Applied Science, Binghamton, New York.

Kolly, J. M., Panagiotou, J., and Czech, B. 2014. “Failure Analysis Techniques for a Lithium-Ion Battery Fire Investigation.” Third International Conference on Fire in Vehicles, Berlin, Germany.

Kolly, J. M. and Groff, L. 2013. “Benefits of a Safety Studies Program to Proactively Promote Aviation Safety.” ISASI Forum: Air Safety Through Investigation.

Coury, B. G., Ellingstad, V. S., and Kolly, J. M. 2010. “Transportation accident investigation: The development of human factors research and practice.” *Reviews of Human Factors and Ergonomics*.