



Marion C. Blakey
President and Chief Executive Officer
Aerospace Industries Association



Marion C. Blakey is president and chief executive officer of the Aerospace Industries Association. AIA represents the nation's leading manufacturers and suppliers of civil, military, and business aircraft, helicopters, unmanned aerial vehicles, space systems,

aircraft engines, missiles, materiel and related components, equipment services and information technology.

Ms. Blakey became the eighth full-time chief executive of the association in 2007. Before that, she served a five-year term as administrator of the Federal Aviation Administration.

As FAA administrator, Blakey regulated the nation's airways as well as operated the world's largest air traffic control system managing 44,000 employees and a \$14 billion budget. During her tenure, the traveling public experienced the safest period for air travel in the United States' history. She also was a tireless safety advocate internationally. Blakey instituted solid business practices at the agency that resulted in more than 97 percent of the agency's major programs coming in on time and on budget. Under her leadership, she launched NextGen – the shift toward a satellite-based system that will modernize air transportation and decrease delays.

Prior to being named FAA Administrator, Blakey served as chairman of the National Transportation Safety Board. During her tenure as chairman, she led a number of accident investigations, including the 2001 crash of American Airlines flight 587 dealing with both the highly technical aspects of the investigation as well as the highly charged public interest in the accident.

Blakey improved the Board's accident reporting process and strengthened its advocacy and outreach programs to promote safer travel throughout all modes of transportation. She also furthered development of the NTSB Academy as a national and international resource to enhance aviation safety and accident investigations.

Including her service at the FAA and NTSB, Blakey has held six presidential appointments, four of which required Senate confirmation. From 1992 to 1993, Blakey served as administrator of the Transportation Department's National Highway Traffic Safety Administration, which regulates the automobile industry. As the nation's leading highway safety official, she was charged with reducing deaths, injuries, and economic losses resulting from motor vehicle crashes. Prior to her service at NHTSA, she held key positions at the Department of Commerce, the Department of Education, the National Endowment for the Humanities, the White House and the Department of Transportation.

From 1993 to 2001, Blakey was the principal of Blakey & Associates, now Blakey & Agnew, a Washington, D.C. public affairs consulting firm with a particular focus on transportation issues and traffic safety.

Born in Gadsden, Ala., Blakey received her bachelor's degree with honors in international studies from Mary Washington College of the University of Virginia. She also attended Johns Hopkins University School of Advanced International Studies for graduate work in Middle East Affairs. She is a member of Phi Beta Kappa and has received a number of honorary degrees and awards.

Positions

Member, AIA Board of Governors
Fellow, Royal Aeronautical Society

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Lori Garver

Ms. Garver is the President of Capital Space, LLC, where she advises organizations and corporations on their aerospace interests. In addition, Ms. Garver serves as a Senior Advisor for Space at the Avascent Group, a strategic consulting firm, based in Washington, D.C. Lori Garver has been a full-time consultant since January 2003. Ms. Garver served as Vice President of DFI Corporate Services (the predecessor organization to the Avascent Group) from 2001 – 2003.

Ms. Garver served as the head of the NASA transition team for the Obama Administration in 2008 and 2009.

In 2001 and 2002, Ms. Garver initiated a project to increase the visibility and viability of space tourism. Supporting a client who was paying for his own trip to space, led to her own quest for a sponsored space flight aboard the Russian Soyuz vehicle to the International Space Station. Garver worked to raise sponsorship funding, as she began the initial medical certification and training in Russia.

Until January 2001 Ms. Garver was the Associate Administrator for Policy and Plans at the National Aeronautics and Space Administration (NASA). Prior to this appointment, Ms. Garver served as a Senior Policy Analyst for the Office of Policy and Plans.

Before joining NASA, Ms. Garver was the Executive Director of the National Space Society, a space advocacy organization. Prior to working at the National Space Society, she worked for Senator John Glenn.

Ms. Garver has published numerous articles and editorials and routinely serves as a space analyst for various media outlets, including NPR, CNN, Good Morning America, the Today Show, ABC Nightly News and the BBC.

She is a recipient of the NASA Distinguished Public Service Medal and the NASA Distinguished Service Medal as well as the National Space Society's Space Pioneer Award and the American Astronautical Society's John F. Kennedy Astronautics Award. Ms. Garver received an Honorary Doctorate of Laws from Colorado College in 2000.

Ms. Garver received her Masters degree in Science, Technology, and Public Policy from the George Washington University in 1989, and her Bachelors degree in Political Science and Economics from Colorado College in 1983. She resides in McLean, VA with her husband, David Brandt, and their two children, Wesley and Mitchell.



Dr. Laurie A. Leshin
Deputy Center Director for Science and Technology
NASA Goddard Space Flight Center

Dr. Laurie Leshin became the Deputy Center Director for Science & Technology at NASA Goddard Space Flight Center in January 2008. In this position, she is the senior scientist at NASA's largest science center, and she leads Center strategy formulation, science, and technology investment activities. With other NASA Goddard senior managers, she is responsible for effectively executing the Centers' \$3B in Programs, and ensuring the scientific integrity of Earth observing missions, space-based telescopes such as the James Webb Space Telescope, and instruments exploring the Moon, Mercury, Mars, Saturn, comets and more. She first joined NASA Goddard in August 2005 as the Director of Sciences and Exploration.

In 2004, Dr. Leshin served on President Bush's Commission on Implementation of United States Space Exploration Policy, a nine-member commission charged with advising the President on the execution of his new Vision Space Exploration. Before joining NASA, Dr. Leshin was The Dee and John Whiteman Dean's Distinguished Professor of Geological Sciences, and the Director of the Center for Meteorites Studies at Arizona State University. She currently serves on the Board of Directors of Woman in Aerospace and on the Council of the American Geophysical Union.

Dr. Leshin received the NASA Distinguished Public Service Medal in 2004. In 1996, she was the inaugural recipient of the Meteoritical Society's Nier Prize, awarded for outstanding research in meteoritics or planetary science by a scientist under the age of 35. The International Astronomical Union recognized her contributions to planetary science with the naming of asteroid 4922 Leshin.

Dr. Leshin's scientific expertise is in cosmochemistry. She is primarily interested in deciphering the record of water on objects in our solar system. She received her B.S. in Chemistry from Arizona State University, and her Ph. D. in Geochemistry in 1994 from California Institute of Technology.



Biography: K. L. Olsen, Ph.D.

Dr. K. L. Olsen became Senior Advisor in the National Science Foundation's Office of Information and Resource Management on January 18, 2009. In this position, Dr. Olsen advises the Foundation's Chief Human Capital Officer as well as NSF senior management on opportunities for NSF-wide management improvement in areas such as strengthening merit review and interdisciplinary research processes, workforce planning, Program Officer training and development, and succession planning.

Prior to her current appointment, Dr. Olsen was confirmed by the U.S. Senate as the Deputy Director and Chief Operating Officer of the National Science Foundation (NSF) in August 2005. At such, she was responsible for the day-to-day management and oversight of program creation and administration; national and international collaborations; merit review processes; strategic and long-term planning and performance; budget development, implementation and reporting; personnel; and operations.

Olsen joined NSF from the Office of Science and Technology Policy (OSTP) in the Executive Office of the President where, since 2002, she had been the Associate Director and Deputy Director for Science. Her responsibilities included overseeing national and international science and education policy development and federal agency program coordination for the physical sciences, life sciences, environmental science, behavioral and social sciences and education.

Prior to OSTP, Olsen served as Chief Scientist for the National Aeronautics and Space Administration (NASA) (May 1999-April 2002) and the Acting Associate Administrator for Biological and Physical Research (July 2000-March 2002). As Chief Scientist, she served as the Administrator's senior scientific advisor, principal advisor on budget content of the scientific programs and principal interface with the national and international scientific community. As Acting Associate Administrator during the formulation of the new Enterprise for Biological and Physical Research, she oversaw budget development and implementation, recruitment and development of professional and support staff and strategic planning.

Dr. Olsen was recruited to NASA from the NSF, where since 1997 she had been Senior Staff Associate for the Science and Technology Centers in the Office of Integrative Activities. From February 1996 until November 1997, she was a Brookings Institute Legislative Fellow and then a detailee from NSF to the Office of Senator Conrad Burns of Montana. Between 1984 and 1996, she served NSF in a variety of administrative and scientific leadership positions. At various times in her early professional career, Dr. Olsen also served as a Research Scientist at the State University of New York – Stony Brook's Long Island Research Institute and Assistant Professor in the Department of Psychiatry and Behavioral Science at the Medical School, as well as Adjunct Associate Professor in the Department of Microbiology at the George Washington University.

Dr. Olsen received a B.S. in Biology and Psychology with honors from Chatham College and Ph.D. in Neuroscience from the University of California, Irvine. She was a Postdoctoral Fellow in the Department of Neuroscience at Children's Hospital of Harvard Medical School. Her research on neural and genetic mechanisms underlying development and expression of behavior was supported by the National Institutes of Health.

Olsen holds numerous awards from foreign entities, government agencies, institutions and scientific societies. These include the Norwegian Royal Order of Merit; NASA's Outstanding Leadership Medal; the NSF Director's Award of Excellence; awards for outstanding service contributions from the Association of Neuroscience Departments and Programs (ANDP), International Behavioral Neuroscience Society and the Society for Behavioral Neuroendocrinology; the Barry M. Goldwater Educator Award from the American Institute of Aeronautics and Astronautics-National Capital Section; the University of California, Irvine Lauds and Laurels Distinguished Alumna Award; and the Barnard College Medal of Distinction. She is an elected Fellow of the American Association for the Advancement of Science and the Association for Women in Science, and an elected member of the Explorers Club. She has been awarded honorary doctoral degrees from Chatham College, Clarkson University, and University of South Carolina.

PATTI GRACE SMITH



Patti Grace Smith served as Associate Administrator for Commercial Space Transportation for the Federal Aviation Administration, U.S. Department of Transportation, where for eleven years (ending February 2008) she headed the line of business responsible for licensing, regulating, and promoting the U.S. commercial space transportation industry. Smith joined the Department of Transportation in 1994. Smith has over 25 years of experience and knowledge of the Federal Communications Commission (FCC), the Federal Aviation Administration (FAA) and the U.S. Department of Transportation (DOT).

In an era of unprecedented private sector progress toward commercial human space flight, Smith worked hard to foster an environment where safety always comes first and innovation can flourish. During her career at the FAA and DOT, Smith was instrumental in the growth and change that the U.S. commercial launch industry has experienced, facilitating both technological and infrastructure developments and initiating and fostering greater cooperation and partnerships between aviation and space functions in the agency. During her service at the FAA, key milestones were achieved that include the Mojave Air and Spaceport becoming the first inland Commercial Spaceport licensed by the agency, and the launch of the X-Prize winning, historic SpaceShip One, a launch licensed by the FAA. Smith also oversaw the development of rules for human space flight mandated by congressional passage of the Commercial Space Launch Amendments Act of 2004.

Under Smith's leadership at the FAA Office of Commercial Space Transportation, the FAA became the recognized global leader in private human space flight. Smith initiated and helped forge partnerships with the Air Force on common launch safety standards, and kept safety, regulatory matters and insurance issues constantly in the public forum. She worked closely with FAA lines of business to draw on aviation expertise where appropriate to space issues and to address the impact of space flight on the National Airspace System. Smith was named by *Space News* as one of the top ten people in the U.S. space sector.

Smith also held positions in the private sector at the National Association of Broadcasters, Westinghouse Broadcasting Corporation, and Sheridan Radio Network; and in government at the Department of Defense and the Federal Communications Commission; and the Senate Commerce Committee. Smith is currently an aerospace consultant with Patti Grace Smith Consulting working with Virgin Galactic (The Virgin Group), CSSI, Inc., the Tauri Group and a number of other aerospace companies. She is on the board of SpaceDev(now Sierra Nevada), Space Foundation, American Astronautical Society, the American Bar Association's Air and Space Law Forum Board; the X Prize Advisory Committee Board, and the Conrad Foundation.

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Bruce A. Wald**Vice President & Director, Image Information Solutions
Space Systems Division**

Bruce A. Wald was appointed as Vice President and Director of Image Solutions for the Space Systems Division of ITT Industries, Inc. in April 2002. In this position he is responsible for a range of business segments supporting both government classified and commercial customers with software products and related engineering services. The segments include the Geospatial Information Solutions group (Rochester, Washington DC), the ITT Visual Information Solutions subsidiary (Boulder, Colorado and foreign subsidiaries) and the business venture known as Airborne Natural Gas Emission Lidar (ANGEL) services, or ITT ANGEL Services. Formerly, the Space Systems Division was Eastman Kodak Company's Remote Sensing operation, which was acquired by ITT Corporation in 2004.

Before joining ITT, Mr. Wald led LH Systems, LLC (a subsidiary of Leica Geosystems AG) where he served as President and Chief Executive Officer. Mr. Wald also served in the same capacity at LH Systems, LLC when it was structured as a joint venture company between BAE Systems Inc. and Leica Geosystems AG. From 1986 through 1996, Mr. Wald served in various international management positions in the Leica Group of companies.

From 1981 through 1986, Mr. Wald served in a variety of corporate finance management and executive marketing positions with Butler International Inc. and its subsidiary, Butler Computer Graphics, Inc.

During the past 25 years of his professional career, Mr. Wald has managed a wide range of systems and services businesses focused on the geospatial community. These businesses have served government and private sector businesses and organizations throughout the United States and internationally, in more than 40 countries.

A native of Maplewood, New Jersey, Mr. Wald has a BA degree in biology from Lehigh University and an MBA from Emory University.

Mr. Wald is active in industry and customer community organizations including the United States Geospatial Intelligence Foundation (USGIF), the Colorado Space Coalition, The Colorado Thirty Group, a member of the Board of Directors, Women in Aerospace in Washington, DC., and Co-Chairs the ITT Space Systems Diversity & Inclusion Council.

Mr. Wald resides in Castle Rock, Colorado with his family.

Engineered for life



Prof. Annalisa Weigel
Aeronautics and Astronautics and Engineering Systems
Massachusetts Institute of Technology

Dr. Weigel's research interests include aerospace policy and economics, aerospace systems architecting and design, innovation and change dynamics in the aerospace industry, and systems engineering. Her teaching experience includes three graduate courses: system architecture, space policy, and an introductory course in technology and policy. She teaches a mixed graduate and undergraduate seminar on lean six sigma principles, practices and tools. She has also taught an undergraduate space systems capstone design course.

She began her professional career as an engineer at Adroit Systems, first supporting the Defense Airborne Reconnaissance Office as an analyst for manned and unmanned platforms. Later, she worked in support of the Department of Defense Space Architect Office during its stand-up and initial space system architecture design studies in the areas of satellite communications, satellite operations, and launch on demand. After completing her Ph.D., Annalisa worked for a year as a Research Associate at Lehman Brothers in New York City before returning to MIT to join the faculty.

She received an SB and SM in Aeronautics and Astronautics, and a Ph.D. in Technology, Management and Policy from MIT. She also received a second SB in Science, Technology and Society from MIT, and an MA in International Relations from the George Washington University. She is an Associate Fellow of the American Institute of Aeronautics and Astronautics, and a Board Member of Women in Aerospace.