

Committee Member Biographies

CHAIRMAN

Norman R. Augustine



Norman R. Augustine graduated from Princeton University where he was awarded Bachelor's and Master's degrees in aeronautical engineering and was elected to Phi Beta Kappa, Tau Beta Pi and Sigma Xi. He is a retired Chairman and CEO of Lockheed Martin Corporation and has served as Assistant Secretary, Under Secretary and Acting Secretary of the Army and as an Assistant Director of Defense Research and Engineering. He has served as Chairman of the National Academy of Engineering, the Defense Science Board and the Aerospace Industries Association, and as President of the American Institute of Aeronautics and Astronautics. A 16-year member of the President's Council of Advisors on Science and Technology, Mr. Augustine chaired the Aeronautics Committee of the NASA Advisory Council and served on the Air Force Scientific Advisory Board. He is an Honorary Fellow of the American Institute of Aeronautics and Astronautics and a Fellow of the American Society of Mechanical Engineers, the Institute of Electrical and Electronic Engineers and the International Academy of Astronautics. A former member of the faculty of the Princeton University Department of Mechanical and Aerospace Engineering, he has received the National Medal of Technology, awarded by the President of the United States, and holds 23 honorary degrees.

Wanda M. Austin



Wanda M. Austin earned a Bachelor's Degree in mathematics from Franklin & Marshall College, Master's degrees in systems engineering and mathematics from the University of Pittsburgh, and a Ph.D. in systems engineering from the University of Southern California. She is President and CEO of The Aerospace Corporation, a leading architect for the nation's national security space programs. She is a member of the National Academy of Engineering, a Fellow of the American Institute of Aeronautics and Astronautics, and a member of the International Academy of Astronautics. She was a member of the National Research Council's Committee on the Rationale and Goals of the U.S. Civil Space Program. She previously served on the NASA Advisory Council and the NASA Aerospace Safety Advisory Panel. Dr. Austin has received the National Intelligence Medallion for Meritorious Service, the Air Force Scroll of Achievement, the National Reconnaissance Office Gold Medal, the U.S. Air Force Meritorious Civilian Service Medal and the NASA Public Service Medal. She was inducted into the "Women in Technology International" Hall of Fame, and she has been named the 2009 Black Engineer of the Year. Dr. Austin is internationally recognized for her work in satellite and payload system acquisition, systems engineering and system simulation.

Bohdan I. Bejmuk

Bohdan (Bo) I. Bejmuk is an aerospace consultant with in-depth knowledge of space systems and launch vehicles. He is Chairman of the Standing Review Board for the NASA Constellation Program. Mr. Bejmuk retired from the Boeing Company in 2006, where he was the Space Shuttle Orbiter Program Director, responsible for all Orbiter engineering efforts. During Space Shuttle development and early operations, he served as Program Manager for system engineering and integration. On Sea Launch, an international joint venture, he was the Executive Vice President and Chief Engineer, directing all aspects of the company's development and leading a multinational workforce of several thousand engineers and shipyard workers. After completion of Sea Launch development, he was manager of operations at the California home port and at the Pacific Ocean launch region. Mr. Bejmuk also served in numerous senior positions at Rockwell International and Martin Marietta. He received a B.S. and M.S. in mechanical engineering from the University of Colorado. A member of the International Academy of Astronautics, he received the Lloyd V. Berkner Award, the Aviation Week Laurels Award, the National Public Service Medal, awarded twice by NASA, and the Rockwell International Presidents Award. He was also recognized as an Eminent Engineer by the California Institute of Technology.



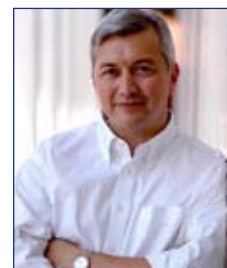
Leroy Chiao

In 15 years with NASA, astronaut Leroy Chiao logged more than 229 days in space, including 36 hours in extra-vehicular activity. A veteran of four space missions, Dr. Chiao most recently served as Commander and NASA Science Officer of Expedition 10 aboard the International Space Station. He was a Space Shuttle Mission Specialist and also certified as a copilot of the Russian Soyuz spacecraft. Since leaving NASA in 2005, Dr. Chiao has worked with entrepreneurial business ventures in the U.S., China, Japan and Russia. Among these, he is Executive Vice President and a Director of Excalibur Almaz, a private manned spaceflight company. He serves as Chairman of the National Space Biomedical Research Institute User Panel and advisor and spokesman for the Heinelein Prize Trust. Dr. Chiao is a Director of the Challenger Center for Space Science Education and of the Committee of 100, an organization of prominent U.S. citizens of Chinese descent. Dr. Chiao earned a B.S. from the University of California at Berkeley and his M.S. and Ph.D. at the University of California at Santa Barbara, all in chemical engineering. Prior to joining NASA, he worked as a research engineer at Hexcel Corp. and then at the Lawrence Livermore National Laboratory.



Christopher Chyba

Christopher Chyba is Professor of Astrophysical Sciences and International Affairs at Princeton University. He previously was Associate Professor of Geological and Environmental Sciences at Stanford University, and held the Carl Sagan Chair at the SETI Institute. Dr. Chyba served at the White House from 1993 to 1995, entering as a White House Fellow on the National Security Council staff, and then in the Office of Science and Technology Policy. In 1996, Dr. Chyba received the Presidential Early Career Award for Scientists and Engineers. In 2001, he was named a MacArthur Fellow for his work in both international security and planetary science. Dr. Chyba serves on the National Academy of Sciences Committee on International Security and Arms Control and is past Chair of the National Research Council Committee on Preventing the Forward Contamination of Mars. He has served on NASA's Space Science Advisory Committee, for which he chaired the Solar System Exploration Subcommittee, and he chaired the Science Definition Team for NASA's Europa Orbiter mission. A physics graduate of Swarthmore College, Dr. Chyba holds an M.Phil. from Cambridge University, where he was a Marshall Scholar, and a Ph.D. in astronomy and space sciences from Cornell University. In 2009, President Obama appointed him to the President's Council of Advisors on Science and Technology.



Edward F. Crawley



Edward F. Crawley is the Ford Professor of Engineering at MIT, and is a Professor of Aeronautics and Astronautics and of Engineering Systems. He received an S.B. and Sc.D. in aerospace engineering from MIT, and he holds an honorary Doctorate from Chalmers University. He has served as the Head of the MIT Department of Aeronautics and Astronautics, the Director of the Cambridge – MIT Institute, and the Director of the Bernard M. Gordon – MIT Engineering Leadership Program. His research has focused on the domain of architecture, design and decision support in complex technical systems. Dr. Crawley is a Fellow of the AIAA and the Royal Aeronautical Society (UK), and is a member of three national academies of engineering: in Sweden, the UK and the United States. Dr. Crawley served as Chairman of the NASA Technology and Commercialization Advisory Committee, and he was a member of the 1993 Presidential Advisory Committee on the Space Station Redesign. He recently co-chaired the committee of the NRC reviewing the NASA Exploration Technology Development Program. He served as a lecturer at the Moscow Aviation Institute, and as a Guest Professor at Tsinghua University in Beijing. In 1980 he was a finalist in the NASA astronaut selection. He has founded three entrepreneurial companies and currently sits on several corporate boards.

Jeff Greason



Jeff Greason, CEO of XCOR Aerospace, has 18 years of experience managing innovative, leading-edge technical project teams at XCOR Aerospace, Rotary Rocket and Intel Corporation. At XCOR, he leads a team that designs, builds and operates long-life, low-cost, reusable rocket engines and rocket-powered vehicles for government and private markets. During his work at XCOR, Mr. Greason has had final go/no-go authority on more than 20 manned rocket flights and hundreds of rocket engine tests. The company has won and successfully completed government contracts for NASA, the U.S. Air Force and DARPA. A recognized expert in reusable launch vehicle regulations of the Federal Aviation Administration's Office of Commercial Space Transportation, he testified before the joint House/Senate subcommittee hearings on Commercial Human Spaceflight, which led to the Commercial Space Launch Amendments Act of 2004. He serves on the Commercial Space Transportation Advisory Committee (COMSTAC) and is a co-founder and Vice Chairman of the Personal Spaceflight Federation, a trade association for innovative launch companies. Mr. Greason was cited by Time magazine in 2001 as one of the "Inventors of the Year" for his team's work on the EZ-Rocket. At Intel, he developed leading-edge processor design techniques and received the coveted Intel Achievement Award. He holds 18 U.S. patents and graduated with honors from the California Institute of Technology.

Charles F. Kennel



Charles F. Kennel earned his A.B. at Harvard University and his Ph.D at Princeton University, studying space plasma physics and astrophysics. After three years at the Avco-Everett Research Laboratory, he joined the UCLA Physics Department, eventually chairing the department, and TRW Systems. He served as: NASA Associate Administrator for Mission to Planet Earth; UCLA Executive Vice Chancellor; Director of the Scripps Institution of Oceanography; and Vice Chancellor of Marine Sciences, University of California, San Diego. Dr. Kennel is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the American Philosophical Society and the International Academy of Astronautics. He has chaired the National Academy's Solar and Space Physics, Global Change Research, Fusion Sciences, and Beyond Einstein committees, as well as its Board on Physics and Astronomy. He was a member of the Pew Oceans Commission and both member and Chair of the NASA Advisory Council. He now chairs the California Council on Science and Technology and the NRC Space Studies Board, and is a Board member of the Bermuda Institute of Ocean Sciences. Dr. Kennel has received prizes from the American Physical Society, the European Geophysical Union and the Italian Academy, both the NASA Distinguished Service and Distinguished Public Service medals, and an honorary degree from the University of Alabama.

Lester L. Lyles

Lester L. Lyles, a retired U.S. Air Force four-star general, graduated from Howard University with a Bachelor's Degree in mechanical engineering. He began his 35-year career in the Air Force as a space vehicle engineer, after earning a Masters Degree in mechanical/nuclear engineering from New Mexico State University. Following the Shuttle Challenger accident, General Lyles directed the recovery operations conducted by the Air Force Space-Launch Systems Office. For this effort, the National Space Club recognized him as the Astronautics Engineer of the Year. General Lyles commanded the Ogden Air Logistics Center and the Space and Missile Systems Center, and he directed the Ballistic Missile Defense Organization. He served as the 27th Vice Chief of Staff of the U.S. Air Force and Commander of the Air Force Materiel Command. He served as a member of the President's Commission on the Implementation of the U.S. Space Exploration Vision, and he chaired the National Research Council study on the Rationale and Goals of the U.S. Civil Space Program. He chairs the Aeronautics Committee of the NASA Advisory Council, and he is the Vice Chair of the Defense Science Board. His numerous honors include the Black Engineer of the Year Lifetime Achievement Award, as well as two honorary doctoral degrees.



Sally K. Ride

Sally K. Ride earned a B.S. in physics and B.A. in English, followed by her M.S. and Ph.D. in physics, all at Stanford University. She is a Professor of Physics (Emerita) at the University of California, San Diego, and the CEO of Imaginary Lines, Inc. Dr. Ride, the first American woman in space, was an astronaut for more than 10 years, flying on two Space Shuttle missions. She was NASA's first Director of Exploration and first Director of Strategic Planning, and she is the only person to serve on both the Space Shuttle Challenger and Columbia accident investigation boards. A Fellow of the American Physical Society and Board Member of both the California Institute of Technology and the Aerospace Corporation, she has also served on the Space Studies Board, the Board of the Congressional Office of Technology Assessment, the President's Commission on White House Fellows and the President's Committee of Advisors on Science and Technology. Dr. Ride has received the Jefferson Award for Public Service, the Von Braun Award and the Lindbergh Eagle, and she has twice been awarded the National Spaceflight Medal. She is a member of the Aviation Hall of Fame and the Astronaut Hall of Fame.

