

Feuchtenberger, Karen

From: Ammerman, Paula <PRA4@psu.edu>
Sent: Thursday, November 17, 2011 11:56 AM
To: Garban; John P. Surma (jpsurma@uss.com); Frazier, Kenneth C.; Tomalis, Ronald
Cc: Baldwin, Cynthia; Guadagnino, Frank T. (FGuadagnino@ReedSmith.com)
Subject: Guy Bluford

Steve Garban asked that send a bio to you for Guy Bluford as a possible alumni representative. Col. Bluford is a 1964 Penn State graduate and was named a Distinguished Alumnus in 1983.

He is the Pennsylvania Society Honoree for 2011.

Thanks,

Paula

<http://www.isc.nasa.gov/Bios/htmlbios/bluford-gs.html>

**GUION S. BLUFORD, JR. (COLONEL, USAF, RET.)
 NASA ASTRONAUT (FORMER)**

PERSONAL DATA: Born in Philadelphia, Pennsylvania, on November 22, 1942. Married to the former Linda Tull of Philadelphia, Pennsylvania. They have two grown children. Hobbies include reading, swimming, jogging, racquetball, handball, scuba diving and golf.

EDUCATION: Graduated from Overbrook Senior High School in Philadelphia, Pennsylvania, in 1960; received a bachelor of science degree in aerospace engineering from the Pennsylvania State University in 1964; a master of science degree with distinction in aerospace engineering from the Air Force Institute of Technology in 1974; a doctor of philosophy in aerospace engineering with a minor in laser physics from the Air Force Institute of Technology in 1978, and a master in business administration from the University of Houston, Clear Lake, in 1987. He has also attended the University of Pennsylvania, Wharton School of Business.

PROFESSIONAL AFFILIATIONS: Fellow, American Institute of Aeronautics and Astronautics; Board of Governors, National Space Club (1997 – 2001); Board of Directors, National Inventor's Hall of Fame Foundation (1997 – 2002); Board of Directors, The Western Reserve Historical Society (1997 – 2003); Board of Directors, The Great Lakes Science Center (1997 – 2003); National Research Council (NRC) Aeronautics and Space Engineering Board, (1993 – 1998); Board of Directors, American Institute of Aeronautics and Astronautics, (1995 – 2001); Board of Directors, U.S. Space Foundation (2000 – 2006) and Life Director; Board of Directors, ENSCO Inc, (2005 – Present); Board of Trustees, The Aerospace Corporation (1999 – 2008); Executive Director of Investigative Activities, Columbia Accident Investigation Board (2003); Society of Distinguished Alumni, Pennsylvania State University (1986 – Present); Committee on Minority Activities, College of Engineering, the Pennsylvania State University (1986 – 2006), Leadership Cleveland, (1995 - Present); Board of Visitors, Hiram College, (2004 – 2009); Board of Advisors, Coalition for Space Exploration (2006- Present); Tau Beta Pi, Omicron Delta Kappa, Sigma Iota Epsilon, National Technical Association, and Tuskegee Airmen.

SPECIAL HONORS: Presented the Leadership Award of Phi Delta Kappa (1962); the National Defense Service Medal (1965); the Vietnam Campaign Medal (1967); the Vietnam Cross of Gallantry with Palm (1967); the Vietnam Service Medal (1967); Ten Air Force Air Medals (1967); Three Air Force Outstanding Unit Awards (1967, 1970, 1972); the German Air Force Aviation Badge from the Federal Republic of West

Germany (1969); the T-38 Instructor Pilot of the Month (1970); the Air Training Command Outstanding Flight Safety Award (1970); the Air Force Commendation Medal (1972); the Air Force Institute of Technology's Mervin E. Gross Award (1974); Who's Who Among Black Americans 1975-1977; the Air Force Meritorious Service Award (1978); the National Society of Black Engineers Distinguished National Scientist Award (1979); Four NASA Group Achievement Awards (1980, 1981, 1989, and 2003); the Pennsylvania State University Alumni Association's Distinguished Alumni Award (1983), and the Alumni Fellows Award (1986); the USAF Command Pilot Astronaut Wings (1983); NASA Space Flight Medals (1983, 1985, 1991, and 1992); the Ebony Black Achievement Award (1983); NAACP Image Award (1983); Who's Who in America (1983 - Present); the Pennsylvania Distinguished Service Medal (1984); the Defense Superior Service Medal (1984); Three Defense Meritorious Service Medals (1986, 1992, and 1993); the New York City Urban League's Whitney Young Memorial Award; the 1991 Black Engineer of the Year Award; the NASA Exceptional Service Medal (1992); the National Intelligence Medal of Achievement (1993); the Federation Aeronautique International Komarov Diploma (1993); the Legion of Merit (1993); the NASA Distinguished Service Medal (1994); Inducted into the International Space Hall of Fame (1997) and the U.S. Astronaut Hall of Fame (2010); the Air Force Institute of Technology Distinguished Alumni Award (2002); the University of Houston, Clear Lake Distinguished Alumni Award (2003); honorary doctorate degrees from Florida A&M University, Texas Southern University, Virginia State University, Morgan State University, Stevens Institute of Technology, Tuskegee Institute, Bowie State College, Thomas Jefferson University, Chicago State University, Georgian Court College, Drexel University, Kent State University, and Central State University.

EXPERIENCE: Bluford graduated from Penn State University in 1964 as a distinguished Air Force ROTC graduate.

He attended pilot training at Williams Air Force Base, Arizona, and received his pilot wings in January 1966. He then went to F-4C combat crew training in Arizona and Florida and was assigned to the 557th Tactical Fighter Squadron, Cam Ranh Bay, Vietnam. He flew 144 combat missions, 65 of which were over North Vietnam.

In July 1967, he was assigned to the 3630th Flying Training Wing, Sheppard Air Force Base, Texas, as a T-38A instructor pilot. He served as a standardization/evaluation officer and as an assistant flight commander. In early 1971, he attended Squadron Officers School and returned as an executive support officer to the Deputy Commander of Operations and as School Secretary for the Wing.

In August 1972, he entered the Air Force Institute of Technology residency school at Wright-Patterson Air Force Base, Ohio. Upon graduating in 1974, he was assigned to the Air Force Flight Dynamics Laboratory at Wright-Patterson Air Force Base, Ohio, as a staff development engineer. He served as deputy for advanced concepts for the Aeromechanics Division and as branch chief of the Aerodynamics and Airframe Branch in the Laboratory. Bluford has written and presented several scientific papers in the area of computational fluid dynamics.

He has logged over 5,200 hours jet flight time in the T-33, T-37, T-38, F-4C, F-15, U-2/TR-1, and F-5A/B, including 1,300 hours as a T-38 instructor pilot. He also has an FAA commercial pilot license and is a certified scuba diver.

Bluford left NASA in July 1993 and retired from the Air Force to take a post of Vice President/General Manager, Engineering Services Division, NYMA Inc., Greenbelt, Maryland. In May, 1997, he became Vice President of the Aerospace Sector of Federal Data Corporation and in October, 2000, became the Vice President of Microgravity R&D and Operations for the Northrop Grumman Corporation. He retired from Northrop Grumman in September, 2002 to become the President of the Aerospace Technology Group, an engineering consulting organization in Cleveland, Ohio.

NASA EXPERIENCE: Bluford became a NASA astronaut in August 1979. His technical assignments have included working with Space Station operations, the Remote Manipulator System (RMS), Spacelab systems and experiments, Space Shuttle systems, payload safety issues and verifying flight software in the Shuttle Avionics Integration Laboratory (SAIL) and in the Flight Systems Laboratory (FSL). A veteran of four space flights, Bluford was a mission specialist on STS-8, STS 61-A, STS-39, and STS-53.

Bluford's first mission was STS-8, which launched from Kennedy Space Center, Florida, on August 30, 1983. This was the third flight for the Orbiter Challenger and the first mission with a night launch and night landing. During the mission, the STS-8 crew deployed the Indian National Satellite (INSAT-1B); operated the Canadian-built RMS with the Payload Flight Test Article (PFTA); operated the Continuous Flow Electrophoresis System (CFES) with live cell samples; conducted medical measurements to understand biophysiological effects of space flight; and activated four "Getaway Special" canisters. STS-8 completed 98 orbits of the Earth in 145 hours before landing at Edwards Air Force Base, California, on September 5, 1983.

Bluford then served on the crew of STS 61-A, the German D-1 Spacelab mission, which launched from Kennedy Space Center, Florida, on October 30, 1985. This mission was the first to carry eight crew members, the largest crew to fly in space and included three European payload specialists. This was the first dedicated Spacelab mission under the direction of the German Aerospace Research Establishment (DFVLR) and the first U.S. mission in which payload control was transferred to a foreign country (German Space Operations Center, Oberpfaffenhofen, Germany). During the mission, the Global Low Orbiting Message Relay Satellite (GLOMR) was deployed from a "Getaway Special" (GAS) container, and 76 experiments were performed in Spacelab in such fields as fluid physics, materials processing, life sciences, and navigation. After completing 111 orbits of the Earth in 169 hours, Challenger landed at Edwards Air Force Base, California, on November 6, 1985.

Bluford also served on the crew of STS-39, which launched from the Kennedy Space Center, Florida, on April 28, 1991, aboard the Orbiter Discovery. The crew gathered aurora, Earth-limb, celestial, and Shuttle environment data with the AFP-675 payload. This payload consisted of the Cryogenic Infrared Radiance Instrumentation for Shuttle (CIRRIS-1A) experiment, Far Ultraviolet Camera experiment (FAR UV), the Uniformly Redundant Array (URA), the Quadrupole Ion Neutral Mass Spectrometer (QINMS), and the Horizon Ultraviolet Program (HUP) experiment. The crew also deployed and retrieved the SPAS-II which carried the Infrared Background Signature Survey (IBSS) experiment. The crew also operated the Space Test Payload-1 (STP-1) and deployed a classified payload from the Multi-Purpose Experiment Canister (MPEC). After completing 134 orbits of the Earth and 199 hours in space, Discovery landed at the Kennedy Space Center, Florida, on May 6, 1991.

On his last flight, Bluford served on the crew of STS-53 which launched from the Kennedy Space Center, Florida, on December 2, 1992. The crew of five deployed the classified Department of Defense payload DOD-1 and then performed several Military-Man-in-Space and NASA experiments. After completing 115 orbits of the Earth in 175 hours, Discovery landed at Edwards Air Force Base, California, on December 9, 1992.

With the completion of his fourth flight, Bluford has logged over 688 hours in space.

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This is only version available from NASA. Updates must be sought direct from the above named individual.

Paula R. Ammerman
Director, Board of Trustees Office
The Pennsylvania State University

205 Old Main
University Park, PA 16802
(814) 865-2521; (814) 863-4631 (FAX)
pra4@psu.edu

www.pennstatesunshinefund.org