



National Aeronautics and Space Administration

Headquarters

Washington, District of Columbia 20546



Biographical Data

BENJAMIN ALVIN DREW, JR.
NASA DEPARTMENT OF DEFENSE LIAISON MANAGER

PERSONAL DATA: Born November 5, 1962 in Washington, DC.

EDUCATION:

1980 St. Aloysius Gonzaga College High School in Washington, DC

1984 Bachelor of Science in Astronautical Engineering from the United States Air Force Academy

1984 Bachelor of Science in Physics from the United States Air Force Academy

1995 Master of Aerospace Science from Embry Riddle Aeronautical University

2006 Master of Strategic Studies from the United States Air Force Air University

PROFESSIONAL MILITARY EDUCATION:

1990 Squadron Officer School at the United States Air Force Air University

1997 Air Command and Staff College from the United States Air Force Air University

2006 Air War College at the United States Air Force Air University

PROFESSIONAL TRAINING:

1985 USAF Undergraduate Pilot Training-Helicopter, Fort Rucker, Alabama

1993 USAF Fixed Wing Qualification Course, Vance AFB, Oklahoma

1994 United States Naval Test Pilot School, Patuxent River NAS, Maryland

1998 Acquisition Program Manager Course, Fort Belvoir, Virginia

2000 Astronaut Candidate Training, Johnson Space Center, Texas

ORGANIZATIONS: Society of Experimental Test Pilots, American Helicopter Society, Association of Space Explorers, Jolly Green Giants [Combat Rescue], U.S. Air Force Academy Association of Graduates.

U.S. AIR FORCE EXPERIENCE: Upon graduation from the Air Force Academy, Drew entered the U.S. Air Force as a Second Lieutenant in May 1984. He completed Undergraduate Helicopter Pilot Training at Fort Rucker, Alabama, earning a helicopter qualification and his pilot wings. His initial assignment was as a combat rescue helicopter pilot, and he subsequently transitioned into USAF special operations. There he flew 60 combat missions in operations over Panama, the Persian Gulf and Northern Iraq. Afterwards, he returned to flight training – first qualifying in jet aircraft, and then, becoming a test pilot, at the United States Naval Test Pilot School. He subsequently worked as a project test pilot, commanded two flight test organizations and served on the U.S. Air Force *Air Combat Command* headquarters staff. Finally, Drew served on detail to the NASA Astronaut Corps, for the remainder of his Air Force career. As a Command Pilot/

Astronaut Mission Specialist with more than 26 years' on active duty, Colonel Drew retired from the Air Force in October 2010.

NASA EXPERIENCE: NASA selected Drew, to train as an astronaut mission specialist, in July 2000. Prior to, and between his space flights, he provided technical support to the Astronaut Office and worked in the Houston Mission Control Center as a CAPCOM—the voice relay between the flight control team and crews in space, for Space Station and Space Shuttle missions. As a Space Shuttle crewmember, he logged 612 hours in space--on Space Shuttle missions STS-118 and STS-133, including 12 hours 48 minutes accumulated time on two spacewalks. Between his first and second space shuttle flights, he was the NASA Director of Operations at the *Yuri Gagarin Cosmonaut Training Center* in Star City, Russia. Since his last space flight, he has worked as NASA's *Deep Space Habitat* project manager and NASA Liaison for Space Security, and on the White House *Office of Science and Technology Policy* staff. He currently serves at NASA Headquarters as the NASA Interagency Liaison Manager to the Department of Defense.

ASSIGNMENTS

1. June 1984 - March 1985, student, Undergraduate Pilot Training, Fort Rucker, Alabama
2. April 1985 - July 1985, pilot, HH-3E Replacement Training Unit, Kirtland AFB, New Mexico
3. July 1985 - May 1987, HH-3E *Jolly Green Giant* pilot, Detachment 11, 39th Aerospace Rescue and Recovery Wing, Myrtle Beach Air Force Base, South Carolina
4. June 1987 - July 1987, pilot, UH-60 Rotary Wing Qualification, Fort Rucker, Alabama
5. August 1987 - June 1992, MH-60G *Pave Hawk* flight examiner pilot, 55th Special Operations Squadron, Eglin AFB, Florida
6. June 1992 - April 1993, pilot, Fixed Wing Qualification Course, Vance AFB, Oklahoma
7. May 1993 - June 1994, pilot, US Naval Test Pilot School, Patuxent River NAS, Maryland
8. July 1994 - December 1997, project test pilot, combined test force commander and assistant deputy operations group commander, Air Force Flight Test Center
9. January 1998 - April 1998, student, Advanced Program Management Course, Defense Acquisition University, Fort Belvoir, Virginia
10. April 1998 - May 2000, acting team chief, Combat Rescue Mission Area, Requirements Directorate, Headquarters Air Combat Command, Langley AFB, Virginia
11. June 2000 - August 2000, commander, Detachment 1 [Flight Test], 46th Operations Group, Hurlburt Field, Florida
12. September 2000 – March 2002, astronaut candidate, NASA, Johnson Space Center, Houston, Texas
13. March 2002 - July 2005, astronaut, NASA , Johnson Space Center, Houston, Texas
14. July 2005 – May 2006, student, Air War College, Maxwell AFB, Alabama
15. June 2006 – January 2009, astronaut STS-118, NASA, Johnson Space Center, Houston, Texas
16. January 2009 – December 2009, Director of NASA Operations, Gagarin Cosmonaut Training Center, Star City, Russia
17. January 2010 - September 2011, astronaut STS-133, NASA, Johnson Space Center, Houston, Texas
18. October 2011 – January 2013, Deep Space Habitat Project Manager, Advanced Exploration Systems Program, Johnson Space Center, Houston, Texas

19. February 2013 – July 2015, NASA Field Liaison for National Security Space, Peterson AFB, Colorado
20. July 2015 – July 2016, Assistant Director for Aviation and Space Security, Office of Science and Technology Policy, Executive Office of the President, Washington, DC
21. July 2016 – Present, Manager, Department of Defense Liaison, NASA Headquarters, Washington, District of Columbia

FLIGHT INFORMATION

Ratings: Command Pilot-Astronaut, Parachutist

Flight hours: More than 4,000

Aircraft flown: Over 30 different types including the H-3 (*Jolly Green Giant* Helicopter), the H-60 (*Pave Hawk* Helicopter), T-38 (*Talon* Jet), OV-105 (Space Shuttle *Endeavour*), and OV-103 (Space Shuttle *Discovery*)

SPACE FLIGHT EXPERIENCE:

STS-118 (August 8 - 21, 2007): The 119th space shuttle flight, the 22nd flight to the International Space Station (ISS), and the 20th flight for the space shuttle *Endeavour*. Added an electric receptacle--for docked shuttles to plug into electrical power from the ISS, a truss segment, a replacement attitude control gyroscope and an *Express Logistics Carrier* (ELC) external stowage pallet to the International Space Station. The mission included four spacewalks, the delivery 5,000 pounds of equipment and supplies to the station and the return of 4,000 pounds of hardware and equipment back to Earth. The flight traversed 5.3 million miles (202 orbits) in space over 12 days, 17 hours, 55 minutes and 34 seconds.

STS-133 (February 24 - March 9, 2011): The 39th and final mission for the space shuttle *Discovery*. Installed the *Permanent Multipurpose Module* (PMM) interior stowage compartment and the fourth *Express Logistics Carrier* (ELC) external stowage pallet to the ISS. Delivered critical spare components and *Robonaut 2*, the first android robot in space. The mission included two space walks outfitting the truss of the station and a variety of other tasks to modernize the ISS. The flight traversed 5.3 million miles (202 orbits) over 12 days, 19 hours and 3 minutes.

HONORS, MAJOR AWARDS AND DECORATIONS

Honorary Doctor of Science (PhD) from Abertay University

Defense Meritorious Service Medal

Meritorious Service Medal with 2 oak leaf clusters

Air Medal

NASA Spaceflight Medal (2)

Aerial Achievement Medal with 5 oak leaf clusters

Air Force Commendation Medal with 2 oak leaf clusters

Air Force Achievement Medal

EFFECTIVE DATES OF PROMOTION

Second Lieutenant May 30, 1984

First Lieutenant May 30, 1986

Captain May 30, 1988

Major April 1, 1996

Lieutenant Colonel September 1, 2000
Colonel May 1, 2006 (Retired October 1, 2010)
GS-15 August 1, 2010
SES (temporary) February 1, 2013

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