



High-school students from Springfield, Va., explore real-life applications of the U.S. Constitution in the Boeing Learning Center at the National Archives Experience in Washington, D.C. Boeing supports a range of Archives activities. ANDI KLING, COURTESY OF FNA

Primary source

Boeing helps the National Archives expand outreach, education efforts

By Maribeth Bruno

The U.S. National Archives preserves and protects 10 billion historical records that tell the story of the United States from its creation. The Foundation for the National Archives' (FNA) relationship with Boeing began much more recently, but the partnership report it provided to the company this summer shows how Boeing's support has allowed the FNA to make these archived materials more understandable and exciting to thousands more people in the United States and around the world.

"Boeing has become a great partner at all levels," said FNA Executive Director Thora Colot. "The company's generosity enabled us to create the Boeing Learning Center and launch national outreach initiatives like traveling exhibitions and a new, award-winning Web site. We also have been able to have a direct impact on schoolchildren, teachers and families in the District of Columbia and in diverse communities nationwide."

Boeing's donations support a range of Archives activities. For instance, a multiyear Boeing gift of \$5 million funds the National Archives Experience, the Archives' educational outreach program that provides offerings such as these:

- **The Boeing Learning Center:** Since April 2007, the Washington, D.C., headquarters of the Archives' educational programs has received more than 10,000 visitors from nearly 60 countries; it has also conducted more than 200 workshops and educational field trips serving nearly 6,000 teachers and students. Its ReSource Room offers games and more information on Archives exhibits. In the Learning Lab, school groups search through document facsimiles to find historical examples of the Constitution in action.

- **Traveling exhibitions:** "Eyewitness: American Originals From the National Archives" has attracted hundreds of thousands of visitors across the United States. Another exhibit, "School House to White House," began a multicity, multiyear tour this past spring. The upcoming "Discovering the Civil War" will be the Archives' largest traveling exhibition yet. "1783: Subject or Citizen?" opens this month in Washington and is the Archives' first international exhibition.

- **The Digital Vaults:** The new National Archives Experience Web site launched earlier this year includes an award-winning interactive exhibit of 1,200 visual records. "Digital Vaults" at www.digitalvaults.org allows visitors to create their own collections, games, posters and movies based on the Archives' primary sources. More than 1,000 people visit the site each day.

In addition, Boeing supports the FNA's annual gala, at which the organization presents its Records of Achievement Award to honor an individual who's had a significant impact on the public's understanding of U.S. history. Past winners include broadcaster Tom Brokaw; the C-SPAN cable television service and its founder, Brian Lamb; and historian John Hope Franklin.

"Boeing's support of FNA partners us with one of this country's greatest public assets on a major focus area for us—increasing public understanding of and engagement in the processes and issues that affect our communities," said Anne Roosevelt, Boeing Global Corporate Citizenship vice president and FNA board member. "We're looking forward to helping them bring their inspiring civics programs to an even wider audience." ■

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From St. Louis to the space shuttle

STS-125 astronaut Mike Massimino has roots with McDonnell Douglas

By Ed Memi

Astronaut Mike Massimino is linked to Boeing in two ways. He's part of the crew that will repair and upgrade the Hubble Space Telescope on the Space Shuttle *Atlantis* STS-125 mission scheduled for this month. He's also a former employee of McDonnell Douglas, a Boeing predecessor company.

During STS-125, Massimino and his fellow crew members will rendezvous, grapple and then berth the bus-sized telescope to a special work platform in the space shuttle payload bay. They'll make repairs and upgrade components during five different spacewalks over five consecutive days.

The STS-125 mission is the shuttle's last visit to the Hubble Space Telescope before the shuttle fleet retires in 2010. The repairs and upgrades *Atlantis*' crew perform will leave the telescope ready for another five years or more of research. Boeing is a major subcontractor to United Space Alliance, the space shuttle operations contractor.

Since Space Shuttle *Discovery* launched Hubble in 1990 and released it into an orbit 304 nautical miles above Earth, the telescope has circled Earth more than 97,000 times and provided more than 4,000 astronomers access to the stars not possible from inside Earth's atmosphere. Hubble has helped answer some of science's key questions and provided images that have awed and inspired the world.

Massimino worked for McDonnell Douglas as a research engineer from 1992 to 1995. During that time, he developed laptop computer displays to assist operators of the shuttle's robotic arm. He left McDonnell Douglas to take a faculty job at the Georgia In-



Astronaut Mike Massimino, STS-125 mission specialist, practices repairing Hubble Space Telescope hardware during a training session at NASA's Johnson Space Center in Houston.

PATRICK L. ARMSTRONG/BOEING

stitute of Technology; he was later accepted into the NASA astronaut corps.

While at McDonnell Douglas, Massimino worked for former astronaut Bob Overmyer. "While Mike was working at McDonnell Douglas, the astronauts had a chance to look him over," said retired Boeing engineering manager Clay Fulcher. "A lot of folks who've been selected to be part of the astronaut crew have previously interacted with astronauts as either contractors or NASA employees." ■

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747: 40 years, by the numbers

On Sept. 30, 1968, the first 747 rolled out of the Everett, Wash., factory. In the 40 years since, more than 1,400 747s followed suit, and production began in August on the newest addition to the 747 line, the 747-8 Freighter. Here's a look at what the 747 family has accomplished.

17 million

Number of 747 flights logged to date

89 million

Flight hours logged to date. This period is equal to more than 10,000 years

42 billion

Number of nautical miles flown (77.8 billion kilometers)

6 million

Approximate number of parts in a 747

1,523

Total orders, through August

PHOTO: The first 747 rolled out of the Everett, Wash., factory 40 years ago.
BOEING HISTORICAL ARCHIVES