## Joan Higginbotham: Her Passion for Math and **Science Led to Outer Space**

'When we took off, we joined

in joy and euphoria'

By Rushawn Walters **Howard University News** Service

WASHINGTON – During grade school growing up in Chicago, Joan Higginbotham said, she always enjoyed math and science. That led to her love for electronics as a young, inquisitive girl.

"I was fascinated with electronics. I used to mess around with things at home," Higginbotham said.

Ultimately, her fascination with math, science and electronics led to her desire to become an electrical engineer, which ultimately led to NASA and a trip to outer space about a space shuttle.

"I wanted to be very good at my job and for people to see me as very competent," she said.

After graduating high school in 1982, Higginbotham received a bachelor's of science degree in electrical and electronics engineering five years later from Southern Illinois University. She then set her sights on working for IBM, where she had interned for two summers. There was just one problem, she said. IBM wasn't looking for any electrical engineers at the time.

NASA, on the other hand,

"Unbeknownst to me, they got all our résumés and out of the blue one day a manager called me up and offered me a choice of two positions at Kennedy Space Center," she re-

Higginbotham said she initially thought the job offer was a prank, but she soon realized it was the real deal. She began her career and new life at the Kennedy Space Center as a payload electrical engineer in the Electrical and Telecommunications Systems Division.

Her job entailed reconfig-

uring the cargo in the Space

Shuttle, commonly called the

payload. Her job included cal-

culating the weight of the ac-

tual spacecraft, for all shuttle

missions and conducting elec-

trical compatibility tests for

all payloads flown aboard the

Higginbotham had finally

reached her goal of becoming

an electrical engineer. She said

shuttle.

she had no plans of becoming an astronaut.

"I was very content," she recalled, "and I kept on getting promotions and moving up the ladder. One day, my manager suggested to me that I'd make a good astronaut."

She eventually applied and was selected as an astronaut candidate and began training in August 1996.

After over a decade of training, Higginbotham, along with the rest of the six crewmembers of the space shuttle Discovery, took off on Dec. 9, 2006.

Her experience, she says, was inde-

> scribable. "It was incredible," she said.

our hands and raised them "It just one of those things that you

absolutely have to experience yourself. "I was sitting with Christer Fuglesang and another crewmember, and when we took off, we joined our hands and raised them in joy and euphoria."

During her 12 days in space, Higginbotham's assignment was to operate the robotic arm space shuttle. The robotic arm is used to hold crew members while doing work in space and to move cargo, such as satellites.

"It was probably one of my tensest moments because you have this huge piece of equipment with this 70-foot long arm worth billions of dollars," she said. "You had a precious life at the end of the arm. So, you're just tense the entire time and really focused on what you're doing."

After her career with NASA, Higginbotham switched

gears and worked in the oil industry and is currently working for hardware store chain Lowe's as director of supplier diversity, which ensures that the more of business' suppliers are minority-owned and woman-owned.

Higginbotham said she never planned to become a role model or to even make history. Instead, she said, she lives her life according to three principles: being a good person, being a productive citizen and trying not to embarrass her

Astronaut Joan Higginbotham

parents.

Higginbotham credits her close-knit family with her drive to keep striving for the

"They were my biggest inspiration," she said. "I have an incredible mom, dad and siblings who were always supportive of me. As a black female astronaut, I hope my life shows other women of color they don't need to be pigeonholed into a particular career, but they can pretty much do whatever they want."

