

# EXPEDITION 24

# SCIENCE FOR SIX

The Expedition 24 crew will conduct two spacewalks and continue research across a variety of fields during their three-month increment. The crew will also conduct technology demonstrations as assembly of the International Space Station nears completion.

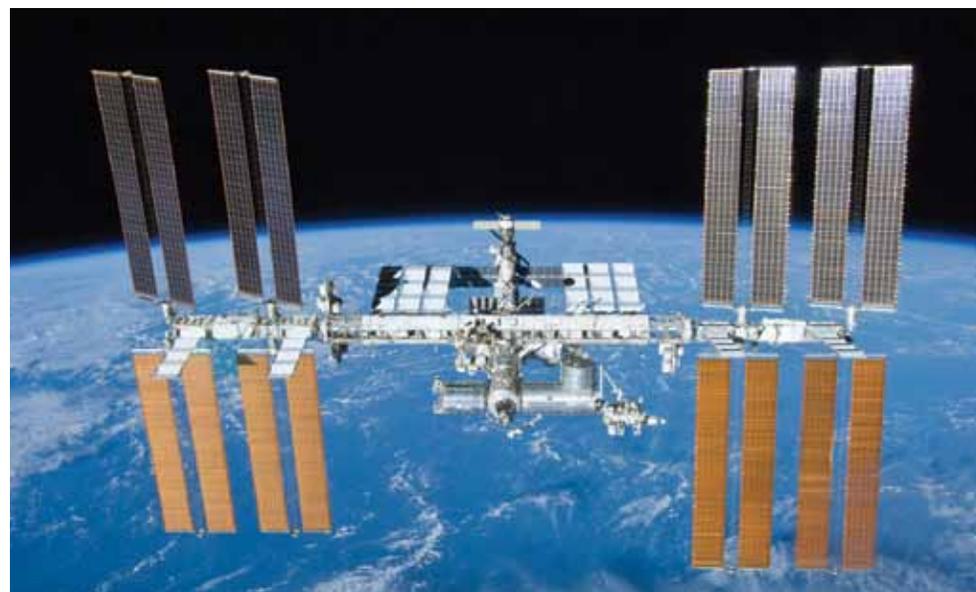
The crew, made up of six residents, will continue some 130 ongoing experiments in human research, biology and biotechnology, physical and materials sciences, technology development and Earth and space sciences.

Expedition 24 Commander and Russian Cosmonaut Alexander Skvortsov along with Cosmonaut Mikhail Kornienko and U.S. Astronaut Tracy Caldwell Dyson, both flight engineers, launched to the Space Station on April 2, 2010, from the Baikonur Cosmodrome in Kazakhstan aboard the Russian Soyuz TMA-18 spacecraft.

The trio were joined by NASA's U.S. Astronauts Doug Wheelock and Shannon Walker, along with Russian Cosmonaut Russia's Fyodor Yurchikhin following their launch aboard Soyuz TMA-19 from Baikonur on June 15, 2010. All three will serve as flight engineers during Expedition 24.

The crew will also conduct technology demonstrations including using an additional recycling device known as Sabatier, which will help wring additional oxygen and water from excess hydrogen not yet being reclaimed by the station's Water Recovery System.

During a spacewalk, Dyson and Wheelock will exit the Quest airlock to install a power, data and grapple fixture on the Zarya module so that the Space Station's robotic arm can be based there to perform work on the Russian segment of the station.



The ISS is seen after Atlantis undocked following STS-132's visit in May 2010. The crew delivered the Russian-built Mini-Research Module 1 and supplies for the orbiting outpost.

## CREW PROFILE



Doug Wheelock

**Doug Wheelock (Colonel, U. S. Army)**  
**Flight Engineer**

**Born:** May 5, 1960 in Binghamton, New York and considers Windsor, New York to be his hometown.

**Education:** Graduated with a bachelor's degree in applied science and engineering from the U. S. Military Academy in 1983, and a master's degree in aerospace engineering from Georgia Tech in 1992.

**Experience:** Selected as an astronaut in 1998, serving as a mission specialist on STS-120 Discovery in 2007.



Shannon Walker

**Shannon Walker, Ph.D.**  
**Flight Engineer**

**Born:** June 4, 1965 in Houston, Texas.

**Education:** Received a bachelor's degree in physics from Rice University in Houston in 1987; a master's and a doctorate in space physics from Rice in 1992 and 1993 respectively.

**Experience:** Selected as an astronaut in 2004, Expedition 24 will be Walker's first spaceflight.



Fyodor Yurchikhin

**Fyodor Yurchikhin, Ph.D.**  
**Flight Engineer**

**Born:** January 3, 1959, in Batumi, Autonomous Republic of Ajara in Georgia.

**Education:** He completed studies at the Moscow Aviation Institute in 1983 and is qualified as a mechanical engineer, specializing in airspace vehicles. Graduated from the Moscow Service State University in 2001 with a doctorate in economics.

**Experience:** Selected as a cosmonaut in 1997, Yurchikhin was a member of the STS-112 crew which visited the ISS in October 2002. He also served as commander of Expedition 15 in 2007.

Later, Kornienko and Yurchikhin will exit the Russian Poisk airlock to make the final external connections of the airlock and docking port to the rest of the Station.

A resupply spacecraft will launch from Baikonur on Aug. 31, 2010 and dock to the station's aft docking port Sept. 2. The Progress 39 will take the place of Progress 38, which will undock on Aug. 30 full of trash that will burn up during the entry into Earth's atmosphere.

On Sept. 16, Skvortsov, Dyson and Kornienko will depart the station, leaving Wheelock as commander, and Walker and Yurchikhin to maintain the station until the Expedition 25 crew arrives a few weeks later.



USA Crew Systems Photo and TV instructor Mark Turner assists Astronauts Shannon Walker and Doug Wheelock in a camera review training session at the Johnson Space Center.

## FOR MORE INFORMATION CONTACT:

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