

# EXPEDITION 28 STOCKING THE STATION

The International Space Station's (ISS) Expedition 28 crew plans to continue world-class research while hosting the final Space Shuttle astronauts who will deliver supplies and spare parts to support the orbiting outpost for the long term. The crew is also planning two spacewalks during their six-month stay.

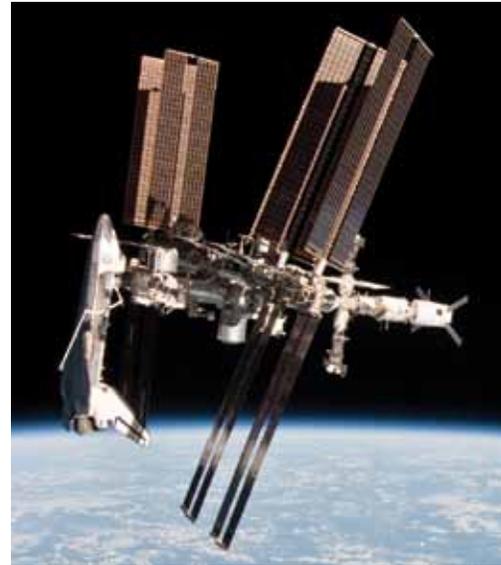
Expedition 28 Commander and Russian Cosmonaut Andrey Borisenko, along with NASA Astronaut Ron Garan and Russian Cosmonaut Alexander Samokutyaev launched to the Space Station on March 29, 2011 from the Baikonur Cosmodrome in Kazakhstan aboard the Russian Soyuz TMA-21 spacecraft.

The trio were joined by Russian Cosmonaut Sergei Volkov, NASA Astronaut Mike Fossum and Japan Aerospace Exploration Agency (JAXA) Astronaut Satoshi Furukawa following their launch aboard Soyuz TMA-02M from Baikonur on June 7, 2011. All three will serve as flight engineers during Expedition 28.

The Expedition 28 crew will work with experiments involving researchers across a variety of fields, including human life sciences, physical sciences and Earth observation, and will conduct technology demonstrations ranging from recycling to robotics.

STS-135, the final flight of the Space Shuttle fleet, is scheduled to launch during the summer. Atlantis' last mission will carry the Raffaello Multi-Purpose Logistics Module to deliver supplies, logistics and spare parts to the Station. In addition, the four-person crew will fly a system to investigate the potential for remote-controlled robot refueling of satellites and spacecraft in orbit. The Shuttle astronauts will also return a failed ammonia pump module to help NASA improve pump designs for future systems.

Garan and Fossum will perform the first spacewalk while Atlantis is docked during the STS-135 mission. Volkov and



*The International Space Station and the Space Shuttle Endeavour are seen as photographed by Expedition 27 Flight Engineer Paolo Nespoli. The image was taken from the Soyuz TMA-20 following its undocking on May 23, 2011. It is the first-ever image of a Shuttle docked to the Space Station.*

Borisenko will venture outside the ISS during July to relocate one of two Russian cargo booms.

Two Russian Progress resupply craft are scheduled to deliver supplies, equipment, fuel and other consumables during the summer. Progress 43 is scheduled to launch from Baikonur in June. Progress 43's stay is expected to be relatively brief, with Progress 44 scheduled to launch in the late summer.

The Expedition 28 crew will spend approximately three months together before Borisenko hands over command of the Station to Fossum. Borisenko, Garan and Samokutyaev will then undock their Soyuz TMA-21 spacecraft and head for a landing in Kazakhstan in September 2011.

## CREW PROFILE



Sergi Volkov

**Sergi Volkov (Colonel, Russian Air Force)**

**Flight Engineer**

**Born:** April 1, 1973, Chuguyev, Kharkov Region, Ukraine

**Education:** Graduated with a degree of pilot-engineer from Tambov Air Force Academy, 1990.

**Experience:** Selected as a cosmonaut in 1997, Volkov was commander of Expedition 17 in 2008.



Michael Fossum

**Michael Fossum (Colonel, U.S. Air Force, Ret.)**

**Flight Engineer**

**Born:** December 19, 1957 in Sioux Falls, South Dakota, and grew up in McAllen, Texas

**Education:** Received a bachelor's degree in mechanical engineering from Texas A&M University in 1980. Earned a master's degree in systems engineering from the Air Force Institute of Technology in 1981 and a master's in physical science from the University of Houston-Clear Lake in 1997.

**Experience:** Selected as an astronaut in 1998, he served as a mission specialist on STS-121 in 2006 and STS-124 in 2008.



Satoshi Furukawa

**Satoshi Furukawa (M.D., Ph.D.)**

**Flight Engineer**

**Born:** April 4, 1964, in Yokohama, Japan.

**Education:** Graduated with a doctorate in medicine in 1989 and a Doctor of Philosophy degree in medical science in 2000, both from the University of Tokyo.

**Experience:** Selected as an astronaut in 1999, Expedition 28 will be his first trip into space.



*Expedition 28 Flight Engineer Mike Fossum participates in a spacewalk training session in the Johnson Space Center's Neutral Buoyancy Laboratory. Divers assist Fossum in his rehearsal for work outside the Space Station.*

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