

# ASTRONAUTS



## Christopher Cassidy

Cassidy was selected as an astronaut by NASA in May 2004. In February 2006, he completed Astronaut Candidate (ASCAN) training. From 2006 through 2008, he served as Capsule Communicator (CAPCOM) in the Mission Control Center. From 2009 through 2011, Cassidy was assigned as the support astronaut on the Space Shuttle Closeout Crew tasked with strapping in the crew and closing and sealing the access hatch for flight. From 2014 to 2015, he served as the Extravehicular Activity (EVA) branch chief and in 2015 was assigned as the Deputy Chief, Astronaut Office. After serving four months as deputy, Cassidy became NASA's 14th Chief Astronaut in July 2015 where he was responsible for flight assignments, mission preparation and on-orbit support of U.S. crews as well as organizing astronaut office support for future launch vehicles.

## Michael Reed Barratt

Expedition 19/20 (March 26, 2009 to October 11, 2009). Dr. Barratt launched as Flight Engineer on Soyuz TMA-14 to the station on March 26, 2009. During this time period, the station underwent transition from three to six permanent station crew members, two spacewalks, two visiting space shuttles and the arrival of the first Japanese H-II Transfer Vehicle (HTV). Dr. Barratt performed two spacewalks in the Russian Orlan suit and participated in further station construction and onboard experiments. Completing 199 days in space, he landed on October 11, 2009.

STS-133 (February 24 to March 9, 2011). Dr. Barratt served as Mission Specialist on STS-133, the 39th and final mission for Space Shuttle Discovery. He served as lead for Rendezvous and Station Robotics. During the 13-day flight, the Discovery crew delivered the Permanent Multipurpose Module (PMM) and the fourth Express Logistics Carrier (ELC) to the station. The mission's two spacewalks assisted in outfitting the truss of the station and completed a variety of other tasks designed to upgrade station systems. The mission was accomplished in 202 Earth orbits, traveling 5.3 million miles in 307 hours and 3 minutes.

## Robert L. Behnken

Colonel Behnken was selected by NASA in July 2000, and following the completion of astronaut candidate training was assigned to support launch and landing activities at the Kennedy Space Center, Florida. Since then, within the Astronaut Office, he served in the Exploration branch, as Chief of the Space Station Operations Branch, and between July 2012 and July 2015 as NASA's Chief Astronaut. As Chief Astronaut, he was responsible for flight assignments, mission preparation, and on-orbit support of international space station crews as well as organizing astronaut office support for future launch vehicles.

Colonel Behnken trained as an international space station crew member following the loss of Columbia and as a mission specialist for STS-400 the launch-on-need rescue flight for the last Hubble servicing mission. He flew STS-123 in March 2008 and STS-130 in February 2010, logging more than 708 hours in space, and performing more than 37 hours in six spacewalks. Colonel Behnken is currently assigned to the cadre of astronauts that will train and fly the initial test flights of the Boeing CST-100 or Space X Dragon commercially built spacecraft.

### **Richard R. Arnold**

STS-119 Discovery (March 15-28, 2009) was the 125th shuttle flight, the 36th flight of Discovery and the 28th shuttle flight to the space station. The primary objective of this flight was to deliver the final pair of power-generating solar array wings and a truss element to the station. The mission also delivered and returned with an expedition crew member. During this mission, Arnold accumulated 12 hours and 34 minutes during 2 spacewalks. Discovery landed at Kennedy Space Center, Florida, having traveled 202 orbits and 5.3 million miles in 12 days 19 hours and 29 minutes.

He is currently a part of Expedition 55 that launched to the International Space Station in March 2018.

### **Joseph M. Acaba**

Selected as a mission specialist by NASA in May 2004. In February 2006, he completed astronaut candidate training that included scientific and technical briefings, intensive instruction in shuttle and International Space Station systems, physiological training, T-38 flight training and water and wilderness survival training. Upon completion of his training, Acaba was assigned to the Hardware Integration Team in the Space Station Branch, working technical issues with European Space Agency (ESA) hardware. He was also a member of the Space Shuttle Branch, supporting shuttle launch and landing preparations at the Kennedy Space Center, Florida. Acaba served as the Branch Chief of the International Space Station Operations branch, which is responsible for mission preparation and on-orbit support of space station crews. Most recently, Acaba recently served as Director of Operations Russia in Star City supporting crew training in Soyuz and Russian Segment systems

### **Thomas H. Marshburn**

Selected by NASA in May 2004, Dr. Marshburn completed astronaut candidate training in February 2006. Training included scientific and technical briefings, intensive instruction in shuttle and International Space Station systems, physiological training, T-38 flight training, and water and wilderness survival training. He was qualified for various technical assignments within the Astronaut Office and future flight assignments as a Mission Specialist. Dr. Marshburn completed his first spaceflight in July 2009, logging more than 376 hours in space, and 18 hours and 59 minutes in three spacewalks. He launched to the International Space Station as a Flight Engineer in December 2012. While onboard the station, he logged more than 146 days in space and 5 hours and 30 minutes of spacewalk time in an emergency spacewalk to replace a leaking ammonia pump.

### **Serena M. Auñón-Chancellor (M.D.)**

Dr. Auñón-Chancellor was selected in July 2009 as one of 14 members of the 20th NASA astronaut class. She graduated in November 2011 from Astronaut Candidate Training, which included scientific and technical briefings, intensive instruction in space station systems, spacewalks, robotics, physiological training, T-38 flight training and water and wilderness survival training. She spent 2 months in Antarctica from 2010 to 2011 searching for meteorites as part of the ANSMET expedition. Most of that time was spent living on the ice 200 nautical miles from the South Pole. In June 2012, Dr. Auñón-Chancellor operated the Deep Worker submersible as part of the NEEMO 16 mission. She subsequently served as an Aquanaut aboard the Aquarius underwater laboratory during the NEEMO 20 undersea exploration mission. Currently, Dr. Auñón-Chancellor spends most of her time handling medical issues for both the International Space Station Operations branch and Commercial Crew Branch. She is also certified as an International Space Station CAPCOM and served as the lead Capcom for the SpaceX-4 and SpaceX-8 cargo resupply missions.

Dr. Auñón-Chancellor is currently a part of the Expedition 56/57 crew that launched to the International Space Station in June 2018.

## Alexander Gerst

In May 2017 Alexander's second mission, Horizons, was announced including his assignment as International Space Station commander. Alexander is the first of ESA's class of 2009 astronauts who will be sent into space for a second time, launching on Soyuz MS-09 together with NASA astronaut Serena Auñón-Chancellor and Russian spacecraft commander Sergei Prokopyev in the Summer of 2018.

## Michael S. Hopkins

Hopkins was selected in July 2009 as one of 14 members of the 20th NASA astronaut class. He graduated from Astronaut Candidate Training in November 2011, which included scientific and technical briefings, intensive instruction in International Space Station systems, spacewalks, robotics, physiological training, T 38 flight training and water and wilderness survival training.

## Oleg Germanovich

Hero of the Russian Federation, pilot-cosmonaut of the Russian Federation

Since 1998 - worked in RSC Energia, was engaged in the development of on-board documentation and experimental development of the techniques and equipment of the VKD under conditions of zero-gravity simulation at the Selen stand and hydro-weighting in the CPP hydro-laboratory; took part in the preparation of the Zvezda service module for the start of the VKD (extra-ship activity) and TOP (maintenance and repair); participated in the preparation for the VKD crews of the ISS; accompanied the outputs to the ISS in the MCC; participated in marine training crews on the descent of the descent vehicle (CA); was a part of the maintenance team of the CA on the landing site; was part of the test team as a test in the spacesuits "Orlan-M-GN", "Orlan-VN", EMU and a diver in a light-diving equipment.

## Andrew J. Feustel

While attending Oakland Community College, Dr. Feustel worked as an auto mechanic at International Autoworks, Ltd., Farmington Hills, Michigan, restoring 1950's Jaguars. At Purdue University, he served as a Residence Hall Counselor for two years at Cary Quadrangle for the Purdue University Student Housing organization. His summers were spent working as a commercial and industrial glazier near his home in Michigan. During his Master's degree studies, Dr. Feustel worked as a Research Assistant and Teaching Assistant in the Earth and Atmospheric Sciences Department of Purdue University. His thesis investigated physical property measurements of rock specimens under elevated hydrostatic pressures simulating Earth's deep crustal environments. While at Purdue, he served for three years as Grand Prix Chairman and team Kart driver for Sigma Phi Epsilon Fraternity. In 1991, Dr. Feustel moved to Kingston, Ontario, Canada, to attend Queen's University, where he worked as a Graduate Research Assistant and Graduate Teaching Assistant. Feustel's Ph.D. thesis investigated seismic wave attenuation in underground mines and measurement techniques and applications to site characterization. For three years, he worked as a Geophysicist for the Engineering Seismology Group, Kingston, Ontario, Canada, installing and operating microseismic monitoring equipment in underground mines throughout Eastern Canada and the United States. In 1997, Dr. Feustel began working for the Exxon Mobil Exploration Company, Houston, Texas, as an Exploration Geophysicist, designing and providing operational oversight of land, marine and borehole seismic programs worldwide.

## **Richard R. Arnold II**

Arnold began working at the United States Naval Academy in 1987 as an Oceanographic Technician. Upon completing his teacher certification program, he accepted a position as a science teacher at John Hanson Middle School in Waldorf, Maryland. During his tenure, he completed a Masters program while conducting research in biostratigraphy utilizing radiometric dating at the Horn Point Environmental Laboratory in Cambridge, Maryland. Upon matriculation, Arnold spent another year working in the Marine Sciences including time at the Cape Cod National Seashore and aboard a sail training/oceanographic vessel headquartered in Woods Hole, Massachusetts. In 1993, Arnold joined the faculty at the Casablanca American School in Casablanca, Morocco, teaching college preparatory Biology and Marine Environmental Science. In 1996, he and his family moved to Riyadh, Saudi Arabia, where he was employed as a middle and high school science teacher and Department Chair at the American International School. In 2001, Arnold was hired by International School Services to teach middle school mathematics and science at the International School of Kuala Kencana in West Papua, Indonesia. In 2003, he accepted a similar teaching position at the American International School of Bucharest in Bucharest, Romania.

## **Sergey Valerevich**

He mastered the aircraft Yak-52, L-39, Tu-134 UBL, Tu-22M3, Tu-160. Has a touch more than 900 hours. Military pilot of the 2nd class. Member of the fighting. Participated in the military parade on May 9, 2010, flying over Red Square on a Tu-160 plane.

He performed 140 jumps with a parachute. Has the 1st category on scuba diving, officer triathlon and football.

## **Jeanette J. Epps**

Dr. Epps was selected in July 2009 as 1 of 14 members of the 20th NASA astronaut class. Her Astronaut Candidate Training included Russian Language training, spacewalk training (EVA), robotics, T-38 jet training, geology and National Outdoor Leadership School (NOLS) training. After graduating Dr. Epps continued training by participating in NEEMO (NASA Extreme Environment Mission Operation), geologic studies in Hawaii, and language immersion in Moscow as well as continued training in EVA, robotics and T-38. While waiting for a mission assignment Dr. Epps served as a representative to the Generic Joint Operation Panel working on crew efficiency on the space station as well as other topics, served as a Crew Support Astronaut for two expeditions, and served as lead CAPCOM in mission control.

She has been assigned to serve as Flight Engineer for Expedition 56 and remain on board for Expedition 57, scheduled to launch in May 2018.

## **Edward Michael "Mike" Fincke**

Selected by NASA in April 1996, Col. Fincke reported to the Johnson Space Center where he completed two years of training and evaluation. He was assigned technical duties in the Astronaut Office Station Operations Branch, serving as an International Space Station Capsule Communicator (CAPCOM), a member of the Crew Test Support Team in Russia and as the space station Crew Procedures Team Lead. He also served as a backup crewmember for Expeditions 4 and 6 as well as backup commander for Expeditions 13 and 16. He is qualified to fly as a left-seat flight engineer (co-pilot) on the Russian Soyuz TM and TMA spacecraft. He was the commander of the second NASA Extreme Environment Mission Operations (NEEMO 2) mission, living and working underwater for 7 days in May of 2002, and was on the CAVES 2012 crew, living underground and exploring for six days, sponsored by the European Space Agency in September 2012.

Col. Fincke was previously in the Exploration Branch of the Astronaut Office where he supported NASA's Commercial Crew Program and served as a space station CAPCOM. Currently, he serves as Branch Chief for the Commercial Crew Branch.