

Johnson Space Center strives to inspire the next generation of explorers by offering young people the opportunity to experience fascinating careers all across the Center.

- Clockwise, from top right*
- Adriana Romero, Bldg. 29. NASA/Blair JSC2004E50126
- Jackie Jaron, NBL Poolside. NASA/DeHoyos JSC2004E34690
- Kenneth Armijo, Bldg. 222, HighBay. NASA/DeHoyos JSC2004-00221
- Laura Brower, Bldg. 352. NASA/Markowitz JSC2004-00308
- Matthew Fong, Bldg. 2, Teague Lobby. NASA/Blair JSC2004E52770

- Clockwise from top right*
- Erin Reed, Bldg 9 NW ISS Mockup. NASA/Stafford JSC2004-00380
- Lauren Johnson, Bldg. 9NW in front of the FFT Space Shuttle mockup. NASA/Blair JSC2004E54258
- Alexandros Kanelakos, Bldg. 7, EVA Suit Lab. NASA/Blair JSC2004-00360
- Jennifer Beall, JSC's Teague Auditorium. NASA/Blair JSC2004E26214



NASA/Markowitz JSC2004E37801

## To infinity and beyond

Representing the future of U.S. space exploration, NASA's 2004 astronaut candidate class was sworn in for duty on June 14. This class is unique in that it includes three Educator Astronauts, who have the distinctive role of using their experiences in space to enrich classroom learning. With their impressive skills and backgrounds, the 11 astronaut candidates will spread their enthusiasm for space to humankind as they explore new worlds.

The 11-member 2004 class of astronauts and three Japan Aerospace Exploration Agency astronauts take a break from training to pose for their group portrait at Johnson Space Center. Pictured are (first row, left to right), Robert L. (Bobby) Satcher Jr., Dorothy M. (Dottie) Metcalf-Lindenburger, Christopher J. (Chris) Cassidy, Richard R. (Ricky) Arnold II, Randolph J. (Randy) Bresnik and Thomas H. (Tom) Marshburn; (second row, left to right) Akihiko Hoshide, Shannon Walker, Joseph M. (Joe) Acaba, James P. (Jim) Dutton Jr., Robert S. (Shane) Kimbrough, Satoshi Furukawa, Jose M. Hernandez and Naoko Yamazaki.

# People

**NASA EMPLOYEES** are often called a "family" because of the unique bond that runs throughout the Agency. NASA coworkers support each other loyally, rejoicing in successes and working through setbacks. The NASA Family's ingenuity, commitment and passion are, and always have been, the Agency's greatest resources. JSC's branch of the Family saw some changes and growth in 2004.

**Dr. Maxime Faget**, who is credited with contributing to the designs of every U.S. human spacecraft from Mercury to the Space Shuttle, died Oct. 9. During several decades of innovation, he received numerous honors including an induction into the National Space Hall of Fame in 1969 and the first Rotary National Award for Space Achievement in 1987.

**L. Gordon Cooper**, one of the original Mercury 7 astronauts, passed away on Oct. 4. The remaining members of this elite brotherhood, John Glenn, Scott Carpenter and Walter Schirra, shared stories about "Gordo" at a memorial service held at JSC, and NASA Administrator Sean O'Keefe posthumously awarded Cooper the NASA Distinguished Service Medal.

**John Young**, legendary astronaut and spaceflight icon, retired from NASA in December. Young's first spaceflight was Gemini 3; later, he piloted the Apollo 10 Command Module, explored the Moon's surface during Apollo 16 and commanded Space Shuttle Columbia's maiden flight. Young, whose JSC posts included chief of the Astronaut Office and associate director (technical), remained an active astronaut until his retirement.



NASA 67-H-376



NASA 565-16600



NASA 572-16660

At top, Max Faget (foreground) and Astronaut Frank Borman inspect the interior of an Apollo Command Module mock-up at Kennedy Space Center on April 9, 1967.

Above left, L. Gordon Cooper Jr., command pilot for the Gemini 5 mission, standing in front of the launch pad in his pressure suit, minus the helmet.

John W. Young, pictured here in a 1972 photo, commanded the Apollo 16 lunar landing mission.

# Key elements of success

## Principal Functions

- Space Shuttle
- International Space Station
- Advanced Human Support Technology
- Biomedical Research and Countermeasures
- Space Medicine
- Space Operations/Communications Management
- Extravehicular Activity (EVA)
- Curatorial Care and Study of Lunar/Planetary Materials
- Astronaut Selection and Training

## Major Facilities

- Consolidated Mission Control Center (Shuttle and Station)
- Shuttle and Station Simulators and Trainers
- White Sands Test Facility (located in New Mexico)
- Shuttle Avionics Integration Laboratory (SAIL)
- Shuttle Engineering Simulator (SES)
- Biomedical Operations Laboratories
- Space Environment Simulation Laboratory (SESL)
- Vibration Acoustic Test Facility
- Anechoic Chamber Facility
- Lunar Sample Facility
- Sonny Carter Training Facility/Neutral Buoyancy Laboratory
- Human Research Facility (under development)

## Johnson Space Center Local Economic Impact of Civil Service Workforce in FY 2003

Communities	Total Number of Employees	Estimated Income of Employees (Dollars in Millions)
Webster	107	9.5
League City	366	32.6
Seabrook/El Lago/Taylor Lake	262	23.3
Kemah/Bacliff	40	3.6
Nassau Bay	337	30.0
Clear Lake City	704	62.7
Friendswood	340	30.3
Dickinson	54	4.8
Alvin	42	3.7
Pearland	131	11.7
LaPorte/Shoreacres/Baytown	37	3.3
Pasadena/Deer Park	71	6.3
Other Houston Area	319	28.4
Other Galveston County**	117	10.4
<b>TOTAL</b>	<b>2,927</b>	<b>260.6</b>

\* Information based on W-2 data provided by the JSC Financial Management Division (FMD). Income is defined as gross income less FICA, Health Insurance Tax (HIT) for Medicare, and Permanent Change of Station HIT related taxes and expenses. In addition to the current employees, there are JSC retirees living in the local area, but their economic impact is not reflected above.

\*\* Includes LaMarque, Santa Fe, San Leon, Texas City, and the city of Galveston.

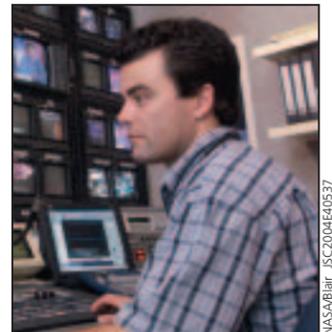
## Number of Employees at JSC

In January 1964, 2,100 employees were readying for the move onsite at JSC (known at that time as Manned Spacecraft Center) with the remaining 600 personnel to be onsite by July.

Today there are 3,000 civil service employees, the majority of whom are professional engineers and scientists. Of these, approximately 106 are active astronauts. Many companies provide contractor personnel to JSC. More than 12,000 contractors work onsite or in nearby office buildings and other facilities.



NASA/Markowitz JSC2004E2855



NASA/Bair JSC2004E0537



NASA JSC2005E0873



Graphic by Bob Eddy