2013
ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

Hon. Kay Bailey Hutchison

2013 National Space Trophy Recipient

Rotary National Award for Space Achievement

Hon. Kay Bailey Hutchison *(Photo by Gittings)*

The Rotary National Award for Space Achievement (RNASA) Foundation's Board of Advisors voted to present former United States Senator Kay Bailey Hutchison with the 2013 National Space Trophy.

Lockheed Martin Space Systems Company Executive Vice President Joanne Maguire nominated Hutchison as a "long standing champion of NASA and DoD space programs" and recognized her bi-partisan leadership ensuring passage of the 2010 NASA Authorization Act establishing a framework for future human exploration. Maguire went on to cite Hutchison's dedication to education excellence, her promotion of science research onboard the International Space Station, and her efforts to support the Orion Multi-Purpose Crew Vehicle, the Space Launch System, and commercial space transportation.

Deep Texas Roots

Kathryn Ann Bailey was born into a family with deep Texas roots. Her great-great-grandfather, Charles S. Taylor, was one of Texas' earliest settlers and signed the Texas Declaration of Independence in 1836. Kay was born in Galveston, Texas and grew up in nearby La Marque with her parents, Kathryn and Allan Bailey, Jr., and her two brothers, Allan and Frank. She studied ballet for 12 years, got good grades in school, became a cheerleader, and was prom queen of her high school class.

She graduated from the University of Texas at Austin with a bachelor of arts degree. She was one of only seven women in her class when she earned her J.D. from the University of Texas Law School in 1967.

Kay Bailey was a reporter for KPRC (NBC) from 1967-71. *(Hutchison photo)*

Houston law firms were reluctant to hire women back then, so the new graduate took a job with KPRC (NBC) television in Houston covering local courts and politics, and also got her first introduction to space. She told RNASA that, "I've been captivated by space exploration since I was a young television reporter in Houston covering the heroics of the Apollo 11 astronauts and the Moon landing in 1969."

Having met Anne Armstrong, co-chair of the Republican National Committee, via an interview in 1971, Kay Bailey left television to become her press secretary. She then ran for the Texas House of Representatives and won a seat in 1972, the first Republican woman elected to that body. She served in the Texas House until 1976 when she was appointed by President Gerald Ford to serve as vice-chairman of the National Transportation Safety Board from 1976-78.

Kay Bailey with parents, Allan and Kathryn, and President Ford in 1976. *(Hutchison photo)*

After losing a close race for the U.S. House of Representatives in 1982, Hutchison left politics to become a bank executive and run a candy company in Dallas. Then, with Karl Rove as her campaign manager, she was elected Texas state treasurer in 1990.

First Woman Senator from Texas

In a special election to fill the last two years of Lloyd Benson's term in 1993, Hutchison became the first woman elected to represent Texas in the United States Senate, and one of only seven women serving at that time. She was elected the next year to a six-year-term.

In 1999, she successfully restored a nearly billion-dollar cut to NASA that she compared to "the equivalent of stopping the transcontinental railroad in Nebraska instead of California." The National Space Society recognized her with a Space Pioneer Award. In her acceptance, she said, "Space is more than the final frontier. It is a billion frontiers. Space has endless opportunities for explorers, entrepreneurs, and inventors. The pioneer spirit has taken America high and far since Alan Shepard was launched into orbit. We will keep the United States number one in space. In this millennium whoever controls space controls the future. That must always be America."

The people of Texas reelected her to the Senate in 2000 with a record of four million votes, the most ever for any statewide candidate.

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RNASA

Rotary National Award for Space Achievement

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Ray and Kay Hutchison and her mother celebrate her election to the senate in 1993. *(Hutchison photo)*

Hutchison was elected Senate Republican Policy Committee Chairman, making her the fourth-ranking Republican leader in the Senate.

Exercising strong leadership on the Senate Commerce Committee's Science and Space Subcommittee, Hutchison worked with NASA and the National Science Foundation on behalf of America's space and science programs. She helped Texas establish the nonprofit Academy of Medicine, Engineering, and Science of Texas (TAMEST) in 2004 to recognize the state's top achievers in these fields. TAMEST's success has brought federal investments to Texas institutions and established the state as an important destination and center of achievement in these fields. Due to the success of this program, ten Nobel Laureates and hundreds of National Academy members now call Texas institutions home.

In 2005, as the new Chair of the Senate Science and Space Subcommittee, the Senator led the preparation of the first NASA Authorization bill in five years. That legislation provided the policy guidance outlining NASA's exploration and research future and was signed into law by President George W. Bush. The bill included designating the International Space Station (ISS) as a National Laboratory. Her support and this designation has paved the way for groundbreaking research among non-NASA government agencies, universities, and the private sector aboard the ISS.

"Senator Mom" with Houston and Bailey, 2005. *(Hutchison photo)*

As a three-term vice chairman of the Senate Republican Conference, Forbes magazine named her one of the 100 most powerful women in the world. Hutchison was reelected to the Senate in 2006 by an overwhelming margin. She continued as the senior Republican member of the Science and Space Subcommittee of the Commerce Committee. She also served as a member of the Commerce, Justice and Science Subcommittee of the Appropriations Committee, which included NASA funding jurisdiction. In 2008, she led the Republican effort to develop a second successive NASA Authorization bill, continuing and expanding the policies established by the 2005 legislation.

Hutchison welcomes home the STS-114 crew in 2005. Seated behind her are Mike Griffin, Eileen Collins, James Kelly, Soichi Noguchi, and Steve Robinson. *(NASA photo)*

As the senior Republican on the full Senate Commerce Committee in 2010, and the Ranking Republican on the Commerce, Justice and Science Appropriations Subcommittee, Hutchison was instrumental in forging a third, and perhaps most influential, NASA reauthorization bill which broke a space policy deadlock between Congress and the White House. It provided direction for future NASA exploration missions, support for commercial space development, and authorized funds for an additional shuttle mission to ensure adequate supplies and parts for ISS while awaiting the start of commercial cargo resupply.

Hutchison's commitment to educational excellence was also evident during her final term in the senate through her work on programs such as the America COMPETES Act which became law in 2007. The Act invests in the development of science, technology, engineering and mathematics (STEM) education, and prepares students for future careers in aerospace.

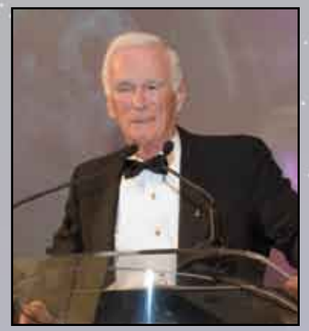
Hutchison retired from the Senate after nearly 20 years and is now a senior counsel with the Dallas law firm, Bracewell & Giuliani, LLP, and on the Bank of America's Global Advisory Council. Hutchison and her husband, Ray, live in Dallas with their daughter, Bailey, and son, Houston.

"A pioneer throughout her career, Senator Hutchison reflects the spirit of exploration and discovery that characterizes America's space program," Maguire wrote in her nomination. The RNASA Foundation is proud to recognize her enthusiastic and critical support of space with the National Space Trophy.

Captain Eugene A. Cernan USN (Ret.)

2013 National Space Trophy Presenter

Rotary National Award for Space Achievement



Eugene Cernan
(RNASA Image)

Gemini and Apollo Astronaut Captain Eugene A. Cernan, USN (Ret.), will present the 2013 Rotary National Award for Space Achievement (RNASA) to the Honorable Kay Bailey Hutchison.

When asked if he would present the National Space Trophy to her, Cernan responded enthusiastically. He said, "I am sincerely honored to have the opportunity to introduce a dear friend, one whom I admire and respect, Senator Kay Bailey Hutchison, at the 2013 Rotary National Award for Space Achievement."

He added that, "Senator Kay Bailey Hutchison is certainly one of the most deserving of those who have ever received the Rotary National Space Trophy," Cernan said. "Throughout her career in the U.S. Senate, she has been a devoted and passionate supporter of our nation's space program. Senator Hutchison continues to be a strong advocate, in hopes of America regaining our preeminence in the world, thus inspiring the dreamers of tomorrow."

A member of the RNASA Foundation's Board of Advisors that selects the National Space Trophy winner each year, Cernan was honored with the award in 2008 for "outstanding achievements as an astronaut, second American to walk in space, crew member on the second flight to the Moon, commander of the last landing on the Moon, and as an advocate for space exploration and education."

Cernan was born in Chicago, Illinois, on March 14, 1934. He graduated from Proviso Township High School in Maywood, Illinois, and received a BS in Electrical Engineering from Purdue University in Lafayette, Indiana, in 1956. He earned a MS in Aeronautical Engineering in 1963 from the United States Naval Post Graduate School in Monterey, California.

Cernan was one of fourteen astronauts selected by NASA in October 1963. He was the pilot of Gemini 9 which launched on June 3, 1966. During this 3-day flight commanded by Tom Stafford, Cernan became the second American to walk in space.

Cernan was lunar module pilot of Apollo 10, launching on May 18, 1969, with Thomas P. Stafford, the commander, and John W. Young, the command module pilot. The Lunar Module, Snoopy, came within eight miles of the lunar surface.

He made his third space flight as commander of Apollo 17—the last mission to the moon for the United States in the 20th century. On December 7, 1972, Apollo 17 was the first night-time launch of the American program. Ronald Evans was the pilot of the command module America, and the pilot of the lunar module, Challenger, was Harrison H. Schmitt. Cernan and Schmitt spent more than three days on the lunar surface in the Taurus-Littrow area. Apollo 17 ended with a splashdown in the Pacific Ocean approximately 0.4 miles from the target point and 4.3 miles from the prime recovery ship USS TICONDEROGA on December 19, 1972.

At the conclusion of Apollo 17, Captain Cernan had logged 566 hours and 15 minutes in space—of which more than 75 hours were spent on the surface of the moon.

After serving twenty years as a Naval Aviator, Captain Cernan retired from the United States Navy in July 1976 and concurrently terminated his formal association with NASA.

From 1976 to 1981, Captain Cernan served as the Executive Vice President, International, and Director of Coral Petroleum, Inc. He was charged with the corporate development of a world-wide supply and marketing strategy. During this period, Captain Cernan furthered his education at the Wharton School of Finance and Northwestern University. St. Martin's Press published his autobiography, The Last Man on the Moon, in 1999.

He resides with his wife, Jan Nanna Cernan, in Houston, Texas. They have three daughters and nine grandchildren. His hobbies include a love for horses and all competitive sports activities, including hunting, fishing and his passion for flying.

Apollo 17 Commander Eugene Cernan on the lunar surface, December 1972.
(NASA photo)

Veronica McGregor
Space Communicator Award Recipient

Rotary National Award for Space Achievement

Veronica McGregor
(NASA/JPL photo)

The RNASA Foundation is happy to recognize Veronica McGregor with a Space Communicator Award this year, the first since 2008. The award, created in 1997 in honor of space reporter and RNASA Advisor Stephen Gauvain (1946-96), is presented to an individual or team that makes exceptional contributions to public understanding and appreciation of space exploration.

As the manager of News and Social Media at NASA's Jet Propulsion Laboratory (JPL) in Pasadena, California, McGregor leads all major media campaigns for missions including the Mars Exploration Rover landings, Deep Impact mission to a comet, Cassini mission at Saturn, Mars Curiosity Rover landing, and many others.

The award citation reads, "For more than twenty years as a manager at NASA/JPL and as a producer at CNN, Veronica McGregor has been in the vanguard of sharing the story of space exploration with a worldwide audience."

McGregor said, "I'm humbled to receive this honor from RNASA and join the group of previous recipients who have done so much to communicate the excitement of space exploration to the public."

Using social media platforms such as Twitter, Facebook, You Tube and Ustream.tv, McGregor has been responsible for delivering NASA content to wider audiences than ever before. In 2008, she created @MarsPhoenix on Twitter which became the 5th most followed account during that summer. In 2009, she created NASA's first "Tweetup" at JPL which has been replicated into 50 similar events now dubbed "NASA Socials." The events are held across the country to bring the public "behind the scenes" to witness a NASA mission or launch.

Again in 2009, McGregor created NASA's first Ustream.tv channel to enable viewers to ask questions directly to mission scientists and engineers during live streaming events. In 2010, she implemented "Curiosity Cam," a live streaming webcam that broadcast the construction of the Mars rover from inside the JPL Spacecraft Assembly Facility. The live stream included daily chat sessions and resulted in 4.5 million views between October 2010 and June 2011.

Curiosity Cam continued to broadcast all events related to the mission, including launch, landing, and press conferences. Over three million unique viewers watched Curiosity landing commentary live on Ustream in August 2012. "The elation of landing wasn't confined to our mission control," McGregor said. "By streaming live to social media platforms, people worldwide were watching the landing online, chatting about it with each other, and sharing their excitement with friends and followers."

From 1986 until she joined NASA in November 2001, McGregor worked for CNN covering major stories such as the Pathfinder mission landing on Mars and the Mars Polar Lander. Other high profile stories included the San Francisco earthquake, the Rodney King trial, OJ Simpson trials and the 2000 presidential election Florida recount.

McGregor earned her bachelor's degree in communication studies from the University of California, Los Angeles in 1990.

McGregor is the recipient of numerous awards including JPL's Explorer Award for Strategic Leadership in 2008, both the NASA Honor Award for Social Media Development and the NASA Exceptional Achievement Medal in 2010, the South by Southwest Interactive Award for Best Social Media Campaign in 2013, and tonight, the 2013 RNASA Space Communicator Award.

Forbes magazine listed McGregor in 2010 as one of the "20 Inspiring Women to Follow on Twitter." Her current work as part of what she calls the "hivemind" behind the @MarsCuriosity rover has been featured in Mashable, The Daily Beast, NBC, CNET, and others. She's currently tweeting as @AsteroidWatch, @NASAJPL, @MarsCuriosity, @MarsRovers and through her personal account @VeronicaMcG. Thanks for following us @RNASAFoundation!

McGregor poses with the Curiosity rover in 2012.
(NASA/JPL photo)

Miles O'Brien
Space Communicator Award Presenter

Rotary National Award for Space Achievement

Miles O'Brien
(RNASA Image, 2011)

RNASA Advisor and 2002 Space Communicator winner, Miles O'Brien, is presenting this year's Space Communicator Award to Veronica McGregor. He said, "It is not an understatement to say she has led NASA into the age of social media. She is not a household name, but she has made the names "Phoenix" and "Curiosity" familiar to millions of people. By finding novel ways to share the passion, excitement and personalities behind these bold missions, she is bringing many more fans into our space tent."

O'Brien is a veteran, independent journalist who focuses on science, technology and aerospace. He is the science correspondent for PBS NewsHour, a producer and director for the PBS science documentary series NOVA, a correspondent for the PBS documentary series FRONTLINE, and the chief correspondent for the National Science Foundation Science Nation series.

Born and raised in Detroit, Michigan, he earned a history degree from Georgetown and began his broadcasting career in 1982 in Washington, DC. He was a reporter and anchor at TV stations in Boston, Massachusetts; Tampa, Florida; Albany, New York; and St. Joseph, Missouri. O'Brien joined CNN in 1992.

While with CNN in Atlanta and New York, O'Brien served as CNN's science, space, aviation technology, and environment correspondent. He anchored programs including Science and Technology Week, Headline News Primetime, and CNN American Morning.

O'Brien has covered all aspects of space including reports on the Hubble Space Telescope, the shuttle dockings at Mir, the first space station launch from Kazakhstan, John Glenn's return to space, landings on Mars, the winning of the Ansari X-Prize, and the tragic loss of Columbia and its crew, a story he told to the world in a 16-hour marathon of live coverage. After years of negotiations, NASA had signed an agreement with CNN that, if not for the disaster, would have made O'Brien the first journalist to fly on a space shuttle. O'Brien followed the investigation and successful return to flight. He left CNN in December 2008.

A third-generation pilot with an instrument rating, O'Brien owns a Cirrus SR-22 and often pilots his airplane to assignments. He is often called upon to explain the world of aviation to a mass audience and has reported extensively on civil aviation issues and crash investigations. He has done four documentaries for PBS on transportation and infrastructure issued for the WNET Blueprint America project, and one for WGBH Frontline: "Flying Cheap," focused on the crash of Continental Flight 3407 and safety concerns surrounding the rise of regional airlines.

O'Brien has won numerous awards over the years, including a half-dozen Emmys, and a Peabody and DuPont for his coverage of Hurricane Katrina and its aftermath.

Currently residing in Washington, DC, he is the proud father of a son at the U.S. Naval Academy and a daughter at Davidson College in North Carolina.

Former astronauts Robert Crippen (left) and Leroy Chaio (right) join O'Brien covering STS-135 for SpaceflightNow.com. *(Photo by Xeni Jardin)*

Elliot Pulham
Emcee

Rotary National Award for Space Achievement

The RNASA Foundation is pleased to have Elliot H. Pulham return this year as the emcee for our awards gala. He is the chief executive officer of the Space Foundation, a globally respected nonprofit organization whose mission is "to advance space-related endeavors to inspire, enable and propel humanity."

Elliot Pulham
(Space Foundation Photo)

With headquarters in Colorado Springs, the Space Foundation publishes *The Space Report: The Authoritative Guide to Global Space Activity* and provides three indexes that track daily U.S. stock market performance of the space industry. Through their Space Certification and Space Technology Hall of Fame programs, the Space Foundation recognizes space-based technologies and innovations that have been adapted to improve life on Earth. The Space Foundation offers a broad range of space-related programs and contests for K-12, undergraduate students, graduate students, and educators.

The Space Foundation is perhaps best known as the host of the annual National Space Symposium. The 29th Space Symposium, held earlier this month in Colorado Springs, had a sold-out exhibit area and attracted more than 9,000 people involved in the public, private, and military space fields, as well as students and educators.

The winner of the 2003 RNASA Space Communicator Award, Pulham has a long history communicating about space. His first job was with a Honolulu newspaper in his native Hawaii where he followed space projects. He left Hawaii to work for the space part of the Boeing Company in Seattle, Washington.

From 1988 to 1998, Pulham was senior manager of public relations, employee communication and advertising for all of Boeing's space programs. He served as the director of corporate communication for the Boeing Employees Good Neighbor Fund—a united giving campaign that raised $18 million in a single year for health and human service agencies.

Pulham moved to Huntsville, Alabama when Boeing was put in charge of the Space Station Work Packages. In 1993, funding for the International Space Station (ISS) passed Congress by just one vote. To build support, Pulham led a grassroots campaign that resulted in thousands of letters mailed to Congress from people all over the country touting the importance of keeping the program sold. The campaign resulted in ISS passing Congress by a 2 to 1 vote the next year. Pulham's leadership earned him the coveted Silver Anvil Award from the Public Relations Society of America—the profession's highest honor.

Continuing with Boeing back in Seattle, from 1995 to '97 Pulham served as deputy chairman, then chairman, of the Space Awareness Alliance. This coalition of 30 corporations and non-profit organizations conducted national public affairs activities on behalf of America's space programs. He was a spokesperson at the Kennedy Space Center for many interplanetary missions including Magellan to Venus, Galileo to Jupiter, and Ulysses which flew past Jupiter to reach a polar orbit to study the sun.

Pulham joined the Space Foundation in Colorado Springs in 1998. He served as Executive Vice President, leading the Space Foundation's public affairs, customer relations, corporate development, communications and marketing teams before becoming chief executive officer, his current position, in 2001. His leadership is credited with more than doubling the attendance of the National Space Symposium and the founding of numerous educational programs.

Pulham is chairman of the Hawaii Aerospace Advisory Committee and serves on the editorial board of New Space Journal (www.newspacejournal.com). He is a former Air Force civic leader and advisor to the chief of staff and secretary of the Air Force, and a recipient of the USAF Distinguished Public Service Medal.

A resident of Colorado Springs, Pulham enjoys skiing, motorcycling, hiking, and camping in the Colorado Rockies with his wife, Cynthia, and son, William.

Pulham was emcee for RNASA in 2012.
(NASA photo)

Captain Michael J. Foreman
Stellar Award Presenter

The RNASA Foundation appreciates Capt. Michael J. Foreman, USN (Ret.) presenting Stellar Awards this year. A veteran of five spacewalks, Foreman flew on STS-123 in March 2008 and STS-129 in November 2009. He's currently the chief of the Safety Branch of the Astronaut Office.

Captain Michael J. Foreman
(NASA Photo)

Foreman was born in Columbus in March 1957, but considers Wadsworth, Ohio his home town. He received a BS degree in aerospace engineering from the U.S. Naval Academy in 1979.

Foreman became a Naval Aviator in January 1981, assigned to Patrol Squadron Twenty-Three at Naval Air Station (NAS) Brunswick, Maine. He made deployments to Rota, Spain; Lajes, Azores; Bermuda and Panama. Following this tour, he attended the U.S. Naval Postgraduate School in Monterey, CA where he earned a MS degree with distinction in aeronautical engineering in 1986. Foreman conducted his thesis research at the NASA Ames in Mountainview, CA.

After graduating, Foreman was assigned as the assistant air operations officer on USS CORAL SEA (CV-43) in Norfolk, Virginia. He flew as an E-2 pilot with VAW-120 and VAW-127. He moved to NAS Patuxent River, Maryland upon selection to the U.S. Naval Test Pilot School (USNTPS) in 1989. In June 1990, he graduated and was assigned to the Force Warfare Aircraft Test Directorate. He was reassigned in 1991 as an operations officer at USNTPS and instructed in the F-18, P-3, T-2, T-38, U-21, U-6 and X-26 glider.

In 1993, Foreman was assigned to the Naval Air Systems Command in Crystal City, Virginia, first as the deputy, and then as the class desk (chief engineer) officer for the T-45 Goshawk Aircraft Program. He then returned to NAS Patuxent River, this time as the military director for the Research and Engineering Group of the Naval Air Warfare Center Aircraft Division. He was also assigned as the Navy liaison to NASA's Advanced Orbiter Cockpit Project at the Johnson Space Center (JSC).

Foreman was the technical lead for the Advanced Orbiter Cockpit Project team when he was selected as an astronaut in June 1998. He worked in the Astronaut Space Station Branch and became deputy of the Space Shuttle Branch while serving as a liaison between JSC and the Kennedy Space Center.

His first space flight was STS-123 on Endeavour which launched on the night of March 11, 2008. This 25th space station assembly mission delivered the Japanese Kibo module, the Canadian Dextre robotic arm, and took Garrett Reisman to replace Léopold Eyharts on the space station. Foreman performed three spacewalks that included installation of Kibo and Dextre, replacing a power control module, testing a tile repair kit, and mounting the MISSE 6 experiment. STS-123 landed on March 26, 2008.

Foreman's second flight was the 31st shuttle flight to the station, STS-129. Atlantis launched on November 16, 2009 and delivered two Express Logistics Carriers, 30,000 pounds of parts, and was the last shuttle flight to return a station astronaut, Nicole Stott. Foreman did two spacewalks that included installation of antennas and brackets on the Unity node, Columbus module, and truss. STS-129 mission landed on Thanksgiving weekend at KSC. From June 2010 to May 2011, Foreman served as chief of External Programs at Glenn Research Center, Ohio.

Foreman has been recognized with the Legion of Merit, Defense Meritorious Service Medal, Meritorious Service Medal, Navy Commendation Medal, Navy Achievement Medal and various other awards. He left the Navy in June 2009.

Foreman is married to the former Lorrie Dancer of Oklahoma City. They have three children. He enjoys golf, home repair/improvement, working out, and spending time with his family.

Foreman was a Mission Specialist on STS-129.
(NASA photo)

Nicole Stott
Stellar Award Presenter

Rotary National Award for Space Achievement

The RNASA Foundation welcomes Nicole Passonno Stott as a Stellar Award presenter this evening. She flew to the International Space Station (ISS) on STS-128 in August 2009 and served as a member of the Expeditions 20 and 21 crews before returning on STS-129 in November of that year. She also flew on STS-133, the last flight of Space Shuttle Discovery in 2011.

Nicole Stott
(NASA Photo)

Nicole Passonno was born in Albany, New York, but considers Clearwater, Florida her hometown. She earned her BS in aeronautical engineering from Embry-Riddle Aeronautical University in 1987 and then went to work as a structural engineer with Pratt and Whitney Government Engines in West Palm Beach, Florida. She spent a year with the Advanced Engines Group performing structural analyses of advanced jet engine component designs.

In 1988, Stott joined NASA at the Kennedy Space Center (KSC) as an operations engineer in the Orbiter Processing Facility. She held a variety of positions within NASA Shuttle Processing, including vehicle operations engineer; NASA convoy commander; Shuttle flow director for Endeavour; and orbiter project engineer for Columbia. In 1992, she also earned an MS in engineering management from the University of Central Florida.

As part of KSC's Space Station Integration Office, Stott relocated to Huntington Beach, California in 1996 to serve as the NASA project lead for the ISS truss elements under construction at the Boeing Space Station facility. In 1998, she joined the Johnson Space Center team in Houston as a member of the NASA Aircraft Operations Division, working as a flight simulation engineer on the Shuttle Training Aircraft.

Selected as a mission specialist in July 2000, Stott's first assignment after completing her astronaut training was crew evaluations of station payloads for the Astronaut Office Station Operations Branch. She also worked as a support astronaut for the Expedition 10 crew and as an ISS Capsule Communicator.

In April 2006, Stott was a crew member on the NASA Extreme Environment Mission Operations (NEEMO) 9 mission where she lived and worked on the Aquarius undersea research habitat with a six-person crew for 18 days, the longest duration NEEMO mission to date. The mission served as an analog for future lunar operations—testing advanced space suit design concepts, robotic devices for surface-based exploration, construction and communication techniques, and advanced telemedicine hardware and techniques.

In preparation for a long duration space flight, Stott completed a Russian language immersion class in Moscow and ISS systems training at each of the international partner training sites in Russia, Japan, Germany, and Canada.

Stott's first flight was a flight engineer on ISS Expeditions 20 and 21 crews in 2009. She launched to the ISS on Discovery STS-128 on August 28, 2009. During STS-128, she performed one spacewalk lasting 6 hours and 39 minutes. While on ISS, she participated in the first capture of the Japanese cargo vehicle HTV and installation of the Colbert treadmill into the Tranquility module. She returned on Atlantis with the crew of STS-129 on November 29, 2009 after logging 91 days in space.

Her next spaceflight was STS-133 from February 24 to March 9, 2011. This 39th and final mission for Space Shuttle Discovery delivered the Permanent Multipurpose Module (PMM) and the fourth Express Logistics Carrier (ELC-4) with critical spare parts and supplies. Stott operated the ISS robotic arm for the unberth and installations of the ELC-4 and PMM. She also served as the onboard EVA crewmember for two space walks and as flight engineer for entry. The 13-day mission made 202 orbits of Earth.

Stott has been recognized with numerous honors including NASA's Space Flight, Distinguished Service, and Exceptional Achievement medals. Among other recognitions, she received the 2009 Embry Riddle Aeronautical University Alumni Excellence Award.

Stott is married with one child. She enjoys flying, snow skiing, Scuba diving, woodworking, painting, and gardening.

Stott in a Russian Soyuz at the ISS during STS-133 in 2011.
(NASA photo)

Mayor Annise Parker
Welcome Address

Annise Parker
(NASA Photo)

The RNASA Foundation is pleased to have the Honorable Annise D. Parker, mayor of Houston, welcome our guests this evening. Upon learning that former Senator Kay Bailey Hutchison would receive the National Space Trophy tonight, Parker said, "As a Texan and as the mayor of 'space city,' I want to personally thank Senator Hutchison for her leadership in keeping the space program strong and also for investing in science education to prepare the next generation of space explorers."

Parker is Houston's 61st mayor and one of only two women to hold the City's highest elected office. She is responsible for all aspects of the general management of the City and for enforcement of all laws and ordinances. Despite her busy schedule, she has made numerous trips to D.C. as an advocate for Johnson Space Center's programs.

Parker spent six years as a City Council member and six years as City Controller. She is the only person in Houston history to hold the offices of council member, controller and mayor. This is her second term as mayor.

Under Parker's management, Houston has become the job growth capital of the nation. Additionally, her tenure has also included Rebuild Houston, a pay-as-you-go comprehensive street and drainage improvement program that will provide jobs for Houstonians for years to come; voter approval of a $410 public improvement bond program; creation of an independent organization to oversee the City's crime lab operations and the opening of a unique sobering center for public intoxication cases

An active member of the U.S. Conference of Mayors, Parker also serves as a member of the U.S. Department of Homeland Security Secretary's Advisory Council and is on the boards of the Texas Environmental Research Consortium and Houston Galveston Area Council.

A second generation native Houstonian, Parker earned a BA from Rice University and spent 20 years working in the oil and gas industry.

Parker and her life partner Kathy Hubbard have been together for more than 20 years and are advocates for adoption, with two adopted daughters and a son.

Sandra Magnus
Stellar Luncheon Speaker

Sandra Magnus
(NASA Photo)

Former NASA Astronaut, Sandra H. "Sandy" Magnus, PhD, was the featured speaker at the Stellar Awards Luncheon earlier today. She is the executive director of the American Institute of Aeronautics and Astronautics, the world's largest technical society dedicated to the global aerospace profession, with more than 35,000 members in 79 countries.

From Belleville, Illinois, Magnus earned a physics degree from the Missouri University of Science and Technology in 1986, and a master's in electrical engineering in 1990. From 1986 to 1991, Magnus worked as a stealth engineer on the Navy's A-12 Attack Aircraft for McDonnell Douglas Aircraft Company. She received her PhD from the School of Materials Science and Engineering at Georgia Tech in 1996.

Selected by NASA in April 1996, Magnus worked in the Astronaut Office Payloads/Habitability branch until May 1998 when she was assigned as a "Russian Crusader," traveling to Russia in support of hardware testing and products development. In August 2000, she was CAPCOM for the International Space Station (ISS).

STS-112 in 2002 was her first flight. This 10-day ISS assembly mission delivered the S-1 truss. She returned to the ISS on STS-126 in November 2008 as an Expedition 18 crew member. After four and a half months in space that included installing systems to increase crew size to six, she returned on STS-119 in March 2009. She then served at NASA Headquarters in the Exploration Systems Mission Directorate, working with the international community on ISS payloads and procedures.

In July 2011, Magnus flew on STS-135, the final space shuttle flight. As loadmaster, she was responsible for the transfer and return thousands of pounds of supplies and equipment to and from the station. After STS-135, she was the deputy chief of the Astronaut Office until leaving in October 2012.

Her many awards include NASA's Space Flight, Distinguished Service, and Exceptional Service medals; and the 40 at 40 Award given to former collegiate women athletes to recognize the impact of Title IX. Magnus enjoys soccer, reading, cooking, travel, and is an avid runner.

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Rotary National Award for Space Achievement

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STELLAR AWARD EVALUATION PANEL

Arnold D. Aldrich
Gen. Kevin P. Chilton, USAF (Ret.)
Dr. Christopher C. Kraft Jr.
Dr. Glynn S. Lunney

SPECIAL THANKS

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Space Center Rotary Club

PROGRAM

27th Annual Rotary National Award for Space Achievement Gala
Friday, April 26, 2013
Houston Hyatt Regency Imperial Ballroom

6:00
RECEPTION
Victoria Reva-Dorsch, Pianist

7:00
WELCOME
Rodolfo González, Chairman, RNASA Foundation
Honorable Annise Parker, Mayor of Houston

PRESENTATION OF THE COLORS
Clear Springs High School JROTC
Cadets: Eryn Behne, Amber Carter, Erial Marshall, and Deanna McFeron

NATIONAL ANTHEM
Avery Pate Weigand

INVOCATION
Dr. David Fannin, Pastor, Nassau Bay Baptist Church

DINNER

8:15
2012 YEAR-IN-REVIEW FILM
Space City Films

MASTER OF CEREMONIES
Elliot Pulham, President and CEO, Space Foundation

PRESENTATION OF SPACE COMMUNICATOR AWARD to Veronica McGregor
Miles O'Brien, PBS NewsHour Science Correspondent

PRESENTATION OF STELLAR AWARDS
Capt. Michael J. Foreman, USN (Ret.), NASA Astronaut
Nicole P. Stott, NASA Astronaut

PRESENTATION OF NATIONAL SPACE TROPHY to Kay Bailey Hutchison
Capt. Eugene A. Cernan, USN (Ret.), Former Gemini/Apollo Astronaut

PRESENTATION OF THE OMEGA WATCH
Lt. Gen. Thomas Stafford, USAF (Ret.)

RECOGNITION OF SPONSORS AND CLOSING

Rotary National Award for Space Achievement

All rows L to R, Back: Bob Wren, Marcus Havican, Jayant Ramakrishnan, Bill Taylor (Vice Chairman), Gary Johnson, Tim Kropp
Third: Geoff Atwater (Treasurer), Rodolfo González (Chairman), Mike Hernandez, Joe Mayer
Second: Shelley Baccus, Duane Ross, Frank Perez, Rosalind Perez, Philip Harris, Irene Chan
Front: Jenny Devolites, Marilyn Musial (SCR President), Marianne Dyson, Lindsey Cousins, Susan Gomez
Not pictured: Floyd Bennett, Kippy Caraway, Jeff Carr, Mary Alys Cherry, Jess Davis, Steven Fredrickson, Bill Geissler, Jacinda Green, Jack Lister, Diana Norman, Branelle Rodriguez, L. Jean Walker (Secretary), Lori Wheaton

The Rotary National Award for Space Achievement (RNASA) Foundation was founded in 1985 to organize and coordinate an annual event to recognize outstanding achievements in space and create greater public awareness of the benefits of space exploration. Each year, the Foundation presents the National Space Trophy (NST) to an outstanding American (see previous winners on page 33) who has made major contributions to our nation's space program.

Nominations are solicited each fall from leaders in government, industry, and professional organizations. The winner is selected by a vote of the RNASA's Board of Advisors (page 34) that includes current and former NASA center directors, leaders of aerospace corporations, space journalists, and previous award recipients.

Since 1989, the RNASA Foundation has also recognized the "unsung heroes" of the space program with Stellar Awards (pages 24-32) for individual and team achievements.

The RNASA Foundation is a nonprofit organization governed by a Board of Directors, a majority of whom must be members in good standing of the Space Center Rotary (SCR) club. One third of the directors are elected each June for three-year terms except for the SCR president who serves for one year while president.

The RNASA Committee (pictured) serves the board and includes the directors, officers, corporate representatives, event coordinators, and dedicated Rotarians who help organize and produce a quality and memorable evening for our sponsors (page 17) and guests.

Excess funds remaining after event expenses are donated to space-related educational programs. Last year, the proceeds were donated to the NASA Aerospace Scholars Program in honor of NST Winner Mike Coats. The Aerospace Scholars Program provides thousands of students the opportunity to experience the exciting work being done at Johnson Space Center.

The RNASA Foundation is grateful for the enthusiasm and support it receives from the aerospace industry, educational organizations, NASA, and the Department of Defense that allows the continued recognition of outstanding achievements in space exploration.

2013 RNASA Stellar Awards Program Evaluation Panel Members

Rotary National Award for Space Achievement

Each fall, the RNASA Foundation solicits Stellar Award nominations of space industry workers and teams deserving of special recognition. This year, 106 individual and 29 team nominations were received in four categories (see citations on pages 24-32). "Each company and organization may only nominate a select few people or teams in each category, so just being nominated is quite an achievement," noted Jennifer Devolites, the RNASA Stellar Awards Committee chairman. "The Foundation is proud to bring the outstanding work of all the nominees to the attention of a wider community."

All nominees are treated to an insiders' tour of Johnson Space Center (JSC) and an awards luncheon with a distinguished speaker. This year's speaker was Dr. Sandra Magnus (see profile on page 16). Nominees receive framed certificates of recognition and blue ribbons to wear at the evening banquet so that guests can identify them and offer their congratulations.

The winners of the Stellar Awards are chosen by an esteemed panel of judges based on which accomplishments will have the most impact on future space activities and that meet the criteria of recognizing "unsung heroes." The winners are announced at the banquet where they receive a distinctive engraved marble trophy generously sponsored this year by ATK.

Stellar Awards Evaluation Panel

Dr. Christopher C. Kraft, Jr. is a founding member of the RNASA Board of Advisors, and he has led the RNASA Stellar Award Evaluation Panel since 1997.

Dr. Chris Kraft
(RNASA Photo)

Kraft joined NASA's predecessor at Langley Field, Virginia in 1945 and spent fourteen years testing aircraft. When NASA formed in 1958, Kraft was one of the 36 original members of the Space Task Group developing Project Mercury.

Kraft was the first flight director and led NASA Flight Operations through Apollo 12. He became the director of what is now Johnson Space Center in 1971, playing a vital role in the success of the final Apollo missions and the first Space Shuttle flights.

Since his retirement in 1982, he has served as a consultant and board member of various Houston companies, as director-at-large of the Houston Chamber of Commerce, and as a member of the Board of Visitors at his alma mater, Virginia Polytechnic Institute and State University.

His book, FLIGHT: My Life In Mission Control, published in 2001, was a New York Times bestseller. Kraft received the 1999 National Space Trophy. In 2011, Building 30 at JSC was named the Christopher C. Kraft Jr. Mission Control Center in his honor.

Dr. Glynn Lunney
(RNASA Photo)

Dr. Glynn S. Lunney, is a member of the RNASA Board of Advisors who is serving his tenth year on the Stellar Awards Evaluation Panel. He was the 2005 National Space Trophy winner.

Lunney graduated from the University of Detroit in 1958. He worked at what is now Glenn Research Center in Cleveland, Ohio and transferred to Langley in Virginia in 1958. Lunney joined the Space Task Group in 1959 and moved to Houston in 1962. He was a flight director for Gemini and Apollo and head of the Flight Director's Office starting in 1968. He received an honorary doctorate from the University of Scranton in 1971. In 1972, Lunney became manager of the Apollo-Soyuz Test Project, and manager of the Apollo Spacecraft Office starting in 1973.

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Lunney served at NASA Headquarters twice during 1976 and later in 1980, first as deputy associate administrator (AA) for Space Flight, and then as acting AA for Space Transportation Operations. In 1981, he returned to Houston to manage the Space Shuttle Program.

In 1985, Lunney left NASA and became president of Rockwell's Satellite Systems Division in California. After a tour at Rockwell Space Systems Division, he returned to Houston in 1989 to lead Rockwell's Space Operations Co. that became part of United Space Alliance (USA) in 1995. Lunney was VP and program manager of USA's Space Flight Operations Contract until his retirement in 1999.

Arnold D. Aldrich
(RNASA Photo)

Arnold D. Aldrich is a member of the RNASA Board of Advisors who is serving his fifth year on the Stellar Award Evaluation panel.

Aldrich joined the Space Task Group at Langley Field in 1959 following graduation from Northeastern University. He held a number of key flight operations management positions during the Mercury, Gemini, and Apollo programs. He served as Skylab deputy program manager; Apollo Spacecraft Program Office deputy manager during the Apollo Soyuz Test Project; Orbiter Project manager during development of Space Shuttles Discovery and Atlantis; and Space Shuttle Program manager. Following the Challenger accident, Aldrich was appointed director of the National Space Transportation System (Space Shuttle Program) at NASA Headquarters where he led recovery and return-to-flight efforts. He then served as AA for Aeronautics and Space Technology and, later, AA for Space Systems Development.

In 1994, Aldrich left NASA and joined Lockheed Missiles and Space Company in Sunnyvale, California. He was vice president, Commercial Space Business Development and then vice president, Strategic Technology Planning. With the merger of Lockheed and Martin Marietta, he became director of Program Operations at Lockheed Martin's headquarters in Bethesda, Maryland. He retired in 2007 and is now an aerospace consultant. Aldrich has received numerous honors including the Presidential Rank of Distinguished Executive and the NASA Distinguished Service Medal.

General Kevin Chilton
(RNASA Photo)

General Kevin P. Chilton is a member of the RNASA Board of Advisors who joined the Stellar Award Evaluation panel this year. The former astronaut and commander of US Strategic Command received the 2011 National Space Trophy.

A graduate of the U. S. Air Force (USAF) Pilot Training and Test Pilot Schools, Chilton holds a BS in engineering science from the USAF Academy and an MS in mechanical engineering from Columbia University. He served operation and test assignments in the RF-4, F-4, and F-15 prior to his selection as an astronaut in 1987.

Chilton piloted the maiden flight of Endeavour on STS-49 in 1992, and the Space Radar Laboratory mission, STS-59, in 1994. In 1996, he commanded STS-76, the third docking mission to the Russian Space Station Mir. He served as deputy program manager for the International Space Station until leaving NASA in 1998.

Chilton served on the Air Force Space Command Staff, the Air Staff, the Joint Staff, and commanded the 9th Reconnaissance Wing, 8th Air Force, Joint Functional Component Command for Space and Global Strike, and Air Force Space Command. From 2007 to 2011, he commanded the U. S. Strategic Command overseeing plans and operations for all U. S. forces conducting strategic deterrence and the Department of Defense's space and cyberspace operations. He retired from the Air Force in 2011 and now serves as a director of Orbital Sciences, Level 3, Anadarko, the Aerospace Corporation, and Schafer Corporation.

Early Career Stellar Nominees

Rotary National Award for Space Achievement

Ms. Erica Marie Abrahamson of UTC Aerospace Systems - Exceptional technical skill and leadership in project management supporting the Orion environmental controls and life support system.

Mr. Jason R. Adam of NASA Marshall Space Flight Center - Outstanding technical excellence in the development, analysis, and implementation of integrated crew abort systems for NASA Space Launch Systems (SLS) and Commercial Crew programs.

Mr. Brian F. Banker of NASA Johnson Space Center - Exceptional innovation, technical excellence, and leadership that has substantially contributed to the success of CryoCart, Morpheus, and other NASA projects.

Mr. Jayson A. Batenhorst of Jacobs - Excellent performance and career progression in supporting flight hardware projects, including the emergency mask and advanced resistive exercise device.

Mr. David S. Beadle of Lockheed Martin - Superior performance in the development of International Space Station (ISS) software tools for crew use to support daily activity planning, procedure, and stowage management.

Mr. Ryan C. Brodie of Pratt & Whitney Rocketdyne - Outstanding development of a fracture control plan for human spaceflight hardware on the J-2X rocket engine.

Mr. Chris Brown of Barrios - Pioneering innovative solutions to critical ISS life support systems, providing a safer environment, substantial crew time savings, and an improved opportunity to utilize the ISS as a national laboratory.

Ms. Theresa M. Castillo of ARES Corporation - Successful development of a "first of its kind" quantitative risk model to calculate the likelihood of fire on the International Space Station.

Major Joseph G. Clemmer of U. S. Air Force - Exceptional early career contributions supporting United States' involvement in space as intercontinental ballistic missile combat crewmember, Global Positioning System mission commander, instructor, evaluator, flight commander, and operational tester culminating as assistant operations officer at the 17th Test Squadron at Schriever Air Force Base (AFB).

Mr. Thomas Jaspero Cognata of MEI Technologies, Inc. - Dedicated professionalism with proven, exceptional support to NASA programs, and a commitment to the NASA community.

Mr. Jacob C. Counts of Boeing - Exemplary performance and leadership of the successful International Space Station improved payload Ethernet hub gateway project.

Mr. Sean C. Cupitt of Boeing - Outstanding technical expertise in developing launch vehicle dynamic modeling processes and leading development of integrated loads design criteria for the NASA/Boeing SLS Core Element and other programs.

Ms. Karen A. Draper of Oceaneering Space Systems - Superior knowledge and commitment to excellence for all elements of government property management.

Mr. Zachary B. Drewry of United Space Alliance - Outstanding technical accomplishments and an innovative mindset that will benefit future NASA mission operations.

Mr. Leo Gard of Pratt & Whitney Rocketdyne - Technical excellence and exceptional leadership in advancing space power systems.

Mr. Jeremy S. Gibson of Lockheed Martin - Outstanding contributions to software projects supporting the NASA Johnson Space Center (JSC) Mission Operations Directorate.

Mr. Ryan T. Gill of Boeing - Exceptional hardware delivery record, daily project management mentor, and lessons learned/tool improvement advocate.

Ms. Mary Ann Grant of UTC Aerospace Systems - Exceptional leadership in implementing innovative designs to make the extravehicular mobility unit functional on the ISS well beyond the retirement of the Space Shuttle.

Dr. Lucie B. Johannes of NASA Johnson Space Center - Exceptional metallurgical engineering leadership, contributions to Agency programs and projects and advancements in state-of-the-art welding.

Mr. Bradley T. Jones of NASA Johnson Space Center - Exceptional technical and programmatic expertise and

continued next page

2012 Early Career Stellar Award Winners (L to R): Robert Behnken (presenting), Brian Crisp, Adam Schlesinger, Chris Vandezande, Pamela August, Bobby Cohanim, Steve Vanderark accepting for Andrew Abercromby, K. Megan McArthur (presenting). *(NASA photo)*

development of innovative solutions to achieve National Space Transportation Policy objectives that enable the future of commercial human space transportation.

Ms. Jael P. Lamothe of NASA Kennedy Space Center - Technical excellence and innovation in developing and executing a nontraditional partnership to sustain NASA shuttle logistics depot capabilities for future use by NASA programs

Mr. Aaron S. Leichner of Pratt & Whitney Rocketdyne - Technical excellence and exceptional leadership in advancing small liquid rocket engines.

Mr. William D. Lopez of MEI Technologies, Inc. - Exceptional implementation of the Telescience Resource Kit (TReK) at the Air Force Operations Location at NASA JSC, providing a 24-hour-per-day, 365-day-per-year operations capability.

Dr. William M. Marshall of NASA Glenn Research Center - Exceptional leadership and technical expertise in rocket combustion research and testing that has enhanced numerous NASA programs and significantly aided the technical community.

Mr. Jeffrey M. Megivern of Pratt & Whitney Rocketdyne - Outstanding support to the development and testing of the J-2X upper stage engine.

Mr. Tanner P. Moore of Jacobs- Exceptional contributions to the Cycle Ergometer with Vibration Isolation System (CEVIS) project and demonstrated enthusiasm for human spaceflight.

Ms. Molly O. Olson of Boeing - Outstanding project management of transition of crew quarters and crew health care system hardware and providing critical roles in the Mission Evaluation Room during ISS extravehicular activities (EVAs).

Ms. Nicole Yvette Orozco of Boeing - Exceptional dedication, hard work, and technical excellence to overcome logistics and on-orbit challenges to maintain ISS water processing operations and ISS six-person crew operations and utilization.

Ms. Chang Qian of ATK - Extraordinary systems engineering, contributing to the successful development of the SLS booster, Ares, and Ares I-X.

Ms. Susan V. Schuh of MEI Technologies, Inc. - Exceptional dedication and outstanding efforts producing the first NASA Crew Comments Database serving as NASA's most complete, searchable archive of ISS post-flight crew debriefing data.

1Lt. George Ralph Sondecker of U.S. Air Force - Exceptional contributions to the Space Environment NanoSat Experiment (SENSE) CubeSat experiment, demonstrating the potential for low-cost small satellites to perform operational Air Force missions.

Mr. Anthony N. Vareha of United Space Alliance - Exceptional contributions leading every major failure resolution effort for the International Space Station electrical power system.

Mid Career Stellar Nominees

Rotary National Award for Space Achievement

Mr. Mark D. Bergan of Boeing - Superior knowledge, expertise and dedication resulting in successful delivery of NASA docking systems hook assembly prototypes.

Mr. Alan S. Bernat of Boeing - Significant development and design contributions in engines and propulsion design in the Space Shuttle era and beyond.

Mr. Jeff A. Boxell of Lockheed Martin - Exceptional leadership, development, and support, of the Mission Control Center communication system.

Ms. Nubia Andrea Carvajal of MEI Technologies, Inc. - True dedication and superior contributions at NASA, and in establishment of an International Colony of Learners who will be the humanspace flight leaders of the future.

Mr. John C. Curran of Boeing - Outstanding contributions to innovative and safe structural designs for the space industry.

Mr. Frederick E. Dodd of Pratt & Whitney Rocketdyne - Exceptional technical excellence and leadership towards the advancement of liquid rocket engine combustion devices.

Mr. James M. Engle of Boeing - Outstanding leadership in the design, development, test, and delivery of a critical component of the international docking adapter (IDA) and the Energia IDA primary structure.

Mr. Thomas O. Engler of NASA Kennedy Space Center - Outstanding technical leadership and innovation facilitating the growth of a globally competitive U.S. commercial space sector, and establishing inventive and nontraditional partnerships that are beneficial for NASA.

Mr. Ven C. Feng of NASA Johnson Space Center - Exemplary performance, outstanding leadership, and creation of a model of teamwork, mutual respect, and collaborative solution-finding for the ISS and future international spaceflight endeavors.

Mr. Steve L. Fonteyne of Pratt & Whitney Rocketdyne - Outstanding support and dedication to rocket engine development programs and mentoring of new employees.

Mr. Sammy Garcia of Jacobs - Exceptional project management and systems engineering contributions to space simulation and testing during the design, installation, and commissioning of the JSC Chamber A high-vacuum and liquid nitrogen thermo-siphon systems supporting chamber upgrades.

Mr. Gary W. Gardner of U. S. Air Force - Exceptional contributions to U.S. advancement in space as electronic intelligence Analyst and Surveillance and Warning Center reporter, Space Test and Evaluation analyst, manager of Space Systems Integration and Test, Operational Test and Evaluation technical director, culminating as director, Space Test Integration Office at the Space Innovation and Development Center at Schriever AFB.

Dr. Razvan Gaza of Lockheed Martin - Innovative efforts to improve radiation protection for crew and hardware systems for exploration beyond low Earth orbit.

Mr. Christopher A. Gerace of NASA Kennedy Space Center - Exceptional dedication, hard work, technical excellence and sustained leadership in furthering the Agency's commitment to developing a commercial crew human space capability to the International Space Station.

Mr. John A. Gouveia of L-3 STRATIS - Superior knowledge and expertise in lean software process and software management applied to creation of innovative methods, enabling major process improvement for flight, simulation, and mission operations software projects.

Ms. Tamara L. Hoskins of ATK - Outstanding accomplishments in driving innovative supplier sourcing solutions and internal process improvements.

Mr. Scott A. Hutchison of Lockheed Martin - Outstanding efforts supporting human spaceflight programs, including driving new design approaches to support the Mission Control Center 21st Century Initiative and to expedite NASA's future mission support objectives.

Mr. Daniel L. Irvin of Boeing - Outstanding leadership and technical excellence in the space program for 25 years.

Ms. Monica A. Jacinto of Pratt & Whitney Rocketdyne - Pioneeering large scale development and technology maturation of the Mondaloy alloy, and contributing to spaceflight programs.

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2012 Mid Career Stellar Award Winners (L to R): K. Megan McArthur (presenting), Mike Burghardt, Nancy Rustemeyer, Kevin Lunde, Anna Jarvis, Paul Hearn, Joan Singer, Nick Costen, Julie Watanabe-Sloan, Robert Behnken (presenting). Not pictured: Judith "Charlie" Blackwell-Thompson. *(NASA photo)*

Mr. George W. Jacobs of NASA Kennedy Space Center (KSC) - Successful execution of the NASA Space Shuttle Transition and Retirement Program at KSC.

Mr. Christopher S. Johnson of Bastion Technologies - Exemplary service in support of the development and testing of planetary instrumentation for science exploration and of the Sample Analysis on Mars (SAM) instrument on board the Mars Science Lab rover.

Ms. Maria C. Keilich of UTC Aerospace Systems - Exceptional technical and skills leadership in systems engineering to support the development of the ISS life support system water processor, oxygen generator system, and Sabatier system.

Mr. Terry G. Koelbl of NASA Marshall Space Flight Center - Exemplary technical leadership in the areas of avionics trade studies, avionics concept development and architecture design supporting launch vehicle configurations.

Ms. Laurie Ann Labra of Lockheed Martin - Exceptional leadership in design and delivery of NASA human spaceflight training and the hardware systems, software, and ground operations supporting the Mission Control Center and Integrated Training Facility.

Ms. Lisa M. Lane of Boeing - Exemplary performance in launch vehicle development through sustained structural analysis excellence.

Mr. Charles M. Lundquist of NASA Johnson Space Center - Extraordinary leadership and personal dedication in the development of the Orion Multi-Purpose Crew Vehicle (MPCV) Program Office.

Ms. Amanda L. Lynch of Jacobs - Exceptional leadership and performance in successful Advanced Exploration Deep Space Habitat integration and testing.

Mr. James H. McMichael of NASA Johnson Space Center - Significant contributions as lead system engineer to the design and development of the capsule parachute assembly system for the MPCV.

Mr. Aaron L. Mears of UTC Aerospace Systems - Outstanding career dedicated to human spaceflight, with contributions critical to the success of NASA's EVA Program and post-Shuttle availability of the extravehicular mobility unit.

Mr. Mark A. Miller of ARES Corporation - Successful development of innovative program planning and control tools used for International Space Station commercial vehicle coordination.

Mr. Jeffrey L. Musler of NASA Johnson Space Center - Exceptional contributions to the management and leadership of human spaceflight mission operations.

Dr. Jianjun Ni of ERC - Outstanding leadership in utilizing ultra wide band technology for multiple tracking applications, resulting in two NASA patent applications.

Mr. Sean K. O'Rourke of United Space Alliance - Pioneering contributions to the ISS Visiting Vehicle Officer participation in the SpaceX to ISS missions to provide a foundation for all future commercial missions to the ISS.

Mr. Satish Reddy of Jacobs- Exceptional expertise in structural and stress analysis and outstanding dedication to NASA flight safety and mission success.

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Mr. Aaron D. Schram of L-3 STRATIS - Exceptional technical excellence, hard work, leadership, and dedication in ensuring the successful development of critical training systems for the 21st century (TS21) high-fidelity training simulations for human spaceflight operations.

Mr. Thomas M. Simon of NASA Johnson Space Center - Exceptional technical and programmatic expertise in developing innovative solutions to certify commercial human space transportation systems for ISS missions.

Dr. Edward De La Rosa Sosa of Jacobs – Outstanding contribution to human spaceflight through the research and exploitation of breakthrough nanotechnology applied to space.

Mr. Scott B. Thurston of NASA Kennedy Space Center - Exceptional technical and programmatic expertise and developing innovative solutions to achieve National Space Transportation Policy objectives that enable the future of commercial human space transportation.

Mr. Craig A. Tyer of Boeing - Exceptional dedication, leadership and hard work resulting in successful ISS docking adapter design reviews with RSC-Energia and NASA.

Mr. Robert C. vanGiessen of Pratt & Whitney Rocketdyne - Exceptional leadership in safety of flight of the RD-180 engine for the Atlas launch vehicle.

Mr. Kevin M. Wells of NASA Johnson Space Center - Sustained leadership and superior efforts in assuring extravehicular capability on the International Space Station.

Mr. Andrew D. Williams of U. S. Air Force Research Laboratory - Exceptional leadership and accomplishments in the development of spacecraft thermal technologies for manned and unmanned space applications including multiple experiments on ISS.

Mr. Edward Young of Boeing – Outstanding system safety leadership for the Nitrogen Oxygen Recharge System Project which contributed greatly to its success.

2012 Late Career Stellar Award Winners (L to R): Robert Behnken (presenting), Tom Davis, Vernon Gregiore, Dennis Eads, David Hartman, Brad Johnson, Antonio Elias, K. Megan McArthur (presenting). *(NASA photo)*

Late Career Stellar Nominees

Rotary National Award for Space Achievement

Mr. Thomas L. Andrews of Boeing - Outstanding accomplishments and exceptional excellence in leading design of large aerospace structures.

Mr. Steven W. Bragado of U. S. Air Force - Exceptional career contributions supporting United States involvement in space as Systems Threat Assessment analyst, Missile Warning operator, Space Satellite operator, crucial roles for MILSATCOM, GPS, and the Space Battlelab culminating as technical director.

Dr. Foy McNeil Cheatwood of NASA Langley Research Center - Outstanding development and demonstration of novel hypersonic inflatable atmospheric decelerator technology for use on future human and robotic missions.

Mr. John R. Christensen of Boeing - Outstanding achievements in advancing human spaceflight through excellence in leadership of mechanical systems design.

Mr. Larry G. Clark of ATK - Exceptional technical ability and leadership resulting in selection as engineering director for the First Stage Booster in support of several human rated launch vehicles and programs.

Mr. Jim A. Clark of Pratt & Whitney Rocketdyne - Technical excellence and exceptional leadership in support of the RL10 upper stage engine for the evolved expendable launch vehicle.

Mr. Carlos F. Enriquez of Boeing - Significant contribution to International Space Station mechanisms design and development.

Ms. Deborah J. Hahn of NASA Kennedy Space Center - Exemplary service to the U. S. space program and the aerospace indrustry.

Mr. John A. Halchak of Pratt & Whitney Rocketdyne - Dedicated service to spaceflight for 51 years as an industry resource in materials applications, engineering, and processes.

Mr. Thomas L. Hoffman of Boeing - Exceptional technical ability and contributions to successful acquisition strategies for ISS docking adapter hardware from RSC-Energia.

Mr. Eric A. Howell of Boeing - Outstanding technical leadership contributions to ISS development programs and driving the execution of the nitrogen oxygen resupply system.

Mr. Kim A. Hughes of Boeing - Sustained excellence in hardware development and integration for human spaceflight programs.

Mr. Claude Russell Joyner of Pratt & Whitney Rocketdyne - Technical leadership and excellence in advanced space mission architectures and nuclear thermal propulsion.

Mr. Robert K. Levy of Boeing - Recognized technical expertise and knowledge of the International Space Station electrical power system architecture and system safety.

Mr. Frank C. McCall of Boeing - Passion for people and the quest for human spaceflight that continues to inspire the next generation to create safe and innovative designs to keep human exploration alive and thriving.

Mr. Michael Melgares of Jacobs - Outstanding project leadership contributions to the Multi-Purpose Crew Vehicle Orion parachute system.

Mr. Tom A. Mulder of Boeing - Outstanding contribution to Boeing's commercial crew transportation system development.

Mr. William M. Nehman of Lockheed Martin - Outstanding knowledge and understanding of space station telemetry data that has contributed greatly to developing new processes to ensure ISS Program goals are met.

Mr. Richard Nygren of SGT - Exemplary leadership and contributions to human spaceflight programs spanning from Apollo to the Constellation Program.

Mr. Stephen S. Oswald of Syzygy Enterprises, LLC - Outstanding leadership in the space field including multiple succussful missions as a Space Shuttle crewmember.

Ms. Dorothy S. Rasco of NASA Johnson Space Center - Exceptional achievements leading to successful Space Shuttle transition and retirement.

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Mr. George A. Salazar of NASA Johnson Space Center - Exemplary NASA service and extensive achievements in technology advancement, project management, system engineering, and educational outreach.

Mr. Charles Seaback of UTC Aerospace Systems - Distinguished career in space life support spanning Shuttle, ISS, and Orion, including extensive systems engineering and project management knowledge that has driven program successes.

Mr. Brian H. Shinguchi of Pratt & Whitney Rocketdyne - Outstanding leadership in the development, production, and flight of critical rocket propulsion systems spanning a successful career of over 35 years.

Mr. Kirk M. Sneddon of Pratt & Whitney Rocketdyne - Exceptional career contributions to the success of the United States' space program.

Mr. Robert W. Stuart of Boeing - Astute and far-reaching technical knowledge advancing the Space Launch Systems endeavor.

Ms. Kathleen E. Symons of NASA Johnson Space Center - Exceptional performance as associate director of the Strategic Opportunity and Partnership Development Office and over 25 years of service to the JSC in multiple roles and directorates.

Mr. Leslie P. Theard of Lockheed Martin - Outstanding human spaceflight contributions to the Orion entry and landing system to improve crew safety and ensure mission success.

Mr. Wayne Tuttle of Keystone Engineering Company - Exceptional development of a demissable propellant tank for spacecraft, substantially reducing or eliminating the risk of debris reaching the Earth's surface upon re-entry.

Mr. Luther D. Woodall of Boeing - Dedicated leadership as chief propulsion architect for NASA's Space Launch System core stage.

Dr. Quan Xiong of Lockheed Martin - Outstanding contributions to International Space Station power planning modeling software.

2012 Stellar Team Award Winners (L to R): K. Megan McArthur (presenting), Vernon Gergiore (P&W Rocketdyne), Howard Hu (NASA JSC STORRM), Gary Wedekind (Boeing SARJ-FR), J. D. Yamokoski (R2), Mohammed Nasrullah (Boeing ARFTA), Joe Gerky (NASA JSC WB-57), Brian Sompayrac (Lockheed Martin MPCV), Robert Behnken (presenting). *(NASA photo)*

Stellar Team Nominees

Rotary National Award for Space Achievement

ATK Value Stream Mapping Improvement Team - Innovative application of lean management principles to dramatically improve affordability of space transportation hardware and services.

Boeing Crew Space Transportation (CST)-100 Integrated Landing System Drop Test Team - Outstanding technical excellence in development and testing of a crewed space capsule land landing system.

Boeing Enhanced Processor with Integrated Communications Team - Extraordinary collaboration and dedication to technical excellence resulting in enhanced integrated communications aboard the ISS.

Boeing Main Bus Switching Unit (MBSU) Installation Investigation Team - Outstanding technical excellence, innovative thinking, and foresight in quickly resolving the MBSU installation issues that ultimately recovered the ISS's power system.

Boeing P6 Photovoltaic Thermal Control System Thermal Team - Outstanding teamwork in identifying and troubleshooting the ISS P6 ammonia leak, including helping execute U. S. Extravehicular Activity 20.

Boeing Software Toolkit for Ethernet Lab-Like Architecture Team - Innovative software application making space station payload integration easier, simpler, more familiar, and less costly.

Boeing Space Launch System Flight Computer Team - Outstanding achievement by the Boeing Flight Computer Development Team on the SLS program.

BoeingSpace Launch System Integrated Loads and Environments Team - Outstanding team contributions to integrated loads and environments for the United States SLS core stage launch.

Boeing Space Launch System Manufacturing and Assembly Convergence Team - Exceptional effort to develop and implement a manufacturing approach for SLS major structural assembly, enabling a rapid start to NASA's beyond Earth orbit space exploration.

Booz Allen Hamilton Polaris Development Team - Unwavering pursuit of innovation in the development of a tool to enable NASA programs to perform joint confidence level and program analysis.

DB Consulting Group Gap Services Transition Team - Flawless efforts of the Gap Services Transition Team in moving assets and processes from an ending contract with no interruption of services.

Jacobs Engineering & Science Contract Group Alpha Magnetic Spectrometer (AMS) Team - Exceptional dedication, hard work, and technical excellence in the design, integration and certification of the AMS payload for its deployment on the International Space Station.

Jacobs Engineering & Science Contract Group Composite Shop Team - Technical excellence and teamwork during the successful development of composite vehicle parts for the NASA Multi Mission Space Exploration Vehicle project.

Jacobs Engineering & Science Contract Group Fabrication Express Team - Establishing an effective collaborative environment that allows engineers to work directly with manufacturing to create prototype parts in a timely manner.

Lockheed Martin Multi-Purpose Crew Vehicle Integration Test Lab Team - Outstanding efforts to plan, design, develop, assemble, integrate and execute the initial testing of the integrated avionics and software for the Exploration Flight Test 1 mission

Lockheed Martin Orion Heatshield Team - Exempary contributions to the development of the heatshield for the Orion Multi-Purpose Crew Vehicle.

NASA Glenn Research Center Extended Testability Analysis Tool Team - Outstanding development, demonstration, and commercialization of new qualitative testability analysis and reporting technologies supporting human-rated launch vehicle design and operation.

NASA Johnson Space Center Capsule Parachute Assembly System (CPAS) Test Team - Exemplary contributions to the design, analysis, integration, safety evaluation, and implementation of the full scale CPAS airdrop test capabilities.

NASA Johnson Space Center Commercial Orbital Transportation Services (COTS) Project Team- Extraordinary achievement and successful execution of NASA's SpaceX COTS project.

NASA Johnson Space Center James Webb Space Telescope Chamber A Modification Team - Exceptional accomplishments in the modification of JSC's Chamber A to provide deep space environmental testing of the James Webb Space Telescope.

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NASA Johnson Space Center Rapid Prototype Laboratory Team - Innovative design, development, and prototyping of user interface systems that will operate on the Orion and other future spacecraft.

Oceaneering Space Systems Crew Module Uprighting System (CMUS) Engineering Development Team- Exceptionally dedicated teamwork and decades of demonstrated human spaceflight product development experience leading to the highly successful engineering design and production of the Orion CMUS.

Oceaneering Space Systems Exoskeleton X1 Team - Outstanding team contributions to advancements in the field of exoskeleton robotics.

Pratt & Whitney Rocketdyne Propulsion Team Supporting CST-100 Development - Exceptional contributions to the development and testing of the CST-100 service module with integrated launch abort propulsion system supporting Boeing's commercial crew spacecraft.

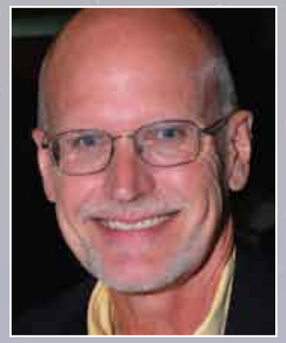
SAIC Commercially Hosted Infrared Payload Third Generation Infrared System Team - Successfully designing, building and flying in space the first wide field of view overhead persistent infraRed sensor, on the first commercially hosted DoD mission.

United Space Alliance Space Shuttle Transition and Retirement Team – Outstanding effort in defining, planning, and executing the Space Shuttle Transition and Retirement project to transition, retire, and close out the Space Shuttle Program assets.

U. S. Air Force Host Based Security System Pilot Integration Team - Outstanding collaborative effort and successful migration from an enclave to enterprise approach for implementing, monitoring and reporting on the information assurance security of a space mission system.

U. S. Air Force Re-Entry Breakup Recorder Team - Outstanding international achievement in successfully collecting breakup data from a re-entering space vehicle for the first time ever.

U. S. Air Force Space and Missile Systems Center Independent Readiness Review Team - Outstanding team contribution to the continued success of national security space missions.



Pat Rawlings
(Photo courtesy Rawlings)

Eagle Applied Sciences, LLC, sponsored the services of renowned space artist Pat Rawlings to create the original portrait of Kay Bailey Hutchison on display tonight and reproduced on the cover. Eagle is a team member with Wyle Laboratories on the recently awarded Human Health and Performance Contract at Johnson Space Center.

Rawlings painted the portrait for the first National Space Trophy winner in 1987, again in 1991, and for every winner since 2001. "In Senator Hutchison's portrait, I wanted to show her constant, positive engagement with those around her against a historical tapestry which includes a Lone Star out of the United States flag," Rawlings said.

His paintings, digital images, and designs have appeared in hundreds of magazines, books, TV programs, and films (see list at www.patrawlings.com). In the past 30 years, Rawlings' specialty has been showing the revelatory human moments that embody the spirit of exploration: such as the first human to wipe dust off of the Pathfinder Sojourner rover on Mars. His goal is to "be there," immersing the viewer in a moment of future history.

Rawlings was a leader in creating "complete" space art for NASA that not only depicted the hardware correctly, but also showed the context or environment accurately. Rawlings said, "In order to suspend disbelief and really pull the viewer into the experience, every rock, cloud, and human expression needs to be as true as the actuators and radiators on the spacecraft. I want to create snapshots of the future."

Recently, Rawlings and about a dozen other artists from around the world spent a week painting onsite at such locations at the Grand Canyon, Meteor Crater, and other terrestrial landscape analogs to Mars. This sort of "ground truth" is why his art appears to have been painted while visiting other worlds.

Rotary National Award for Space Achievement

1987 - Dr. Maxime Faget
1988 - Hon. Don Fuqua
1989 - V. Adm. Richard Truly, USN (Ret.)
1990 - Dr. Lew Allen
1991 - Dr. Aaron Cohen
1992 - Dr. Norman R. Augustine
1993 - Lt. Gen. Thomas Stafford, USAF (Ret.)
1994 - Edward C."'Pete" Aldridge, Jr.
1995 - Daniel Goldin
1996 - Capt. Robert L. Crippen, USN (Ret.)
1997 - George W.S. Abbey
1998 - President George H.W. Bush
1999 - Dr. Christopher C. Craft, Jr.
2000 - Capt. John W. Young, USN (Ret.)
2001 - Tommy Holloway
2002 - Dr. George E. Mueller
2003 - Roy S. Estess
2004 - Neil A. Armstrong
2005 - Dr. Glynn S. Lunney
2006 - Col. Eileen Collins, USAF (Ret.)
2007 - Eugene F. "Gene" Kranz
2008 - Capt. Eugene Cernan, USN (Ret.)
2009 - Dr. Michael D. Griffin
2010 - William H. Gerstenmaier
2011 - General Kevin P. Chilton
2012 - Michael L. Coats
2013 - Hon. Kay Bailey Hutchison

Tribute to Neil A. Armstrong (1930-2012)

The RNASA Foundation mourned the death of Neil Armstrong on August 25, 2012. RNASA Foundation Chairman Rodolfo González said, "We were grateful to be allowed the opportunity to publicly recognize him with a National Space Trophy in 2004, and we were honored for him to actively serve on the Board of Advisors since then. Neil Armstrong will no doubt be well-known for millennia to come. We are extremely grateful for his service, the example he set, and the accomplishments he embodied."

Neil Armstrong at RNASA gala in 2004
(RNASA Photo)

In his speech to the 2004 gala attendees, Armstrong gave what he called "an eight-minute retrospective on the beginning of the Space Age." The famous first man on the Moon noted that, "We know the advancement of knowledge, the rate of progress is proportional to the risk encountered. The public at large may well be more risk-adverse than the individuals in our business, but to limit the progress in the name of eliminating risk is no virtue." Armstrong's entire speech is online at: http://www.rnasa.org/2004files/agenda2004.html#neil_armstrong_remarks.

We will all greatly miss the man who became a symbol for exploration and engineering excellence, and who continues to inspire us with his historic first steps on another world.

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Made entirely of lead crystal, the 500-pound National Space Trophy is shaped like a graceful rocket above a base that is reminiscent of exhaust clouds or the frozen moons of some distant world. A thin white line spirals around the column, etching our pathway to the stars, drawing our attention to the bubble of air in the tip of the cone - a bubble as fragile and beautiful as human life, shining with the bright light of hope and dreams for the future. The Trophy is on permanent display at Space Center Houston along with the portrait of the most recent trophy recipient.

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