
U.S.

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT 25th Anniversary 2011

Kevin P. Chilton

★★★★

2011 NATIONAL SPACE TROPHY WINNER

The Rotary National Award for Space Achievement (RNASA) Foundation is delighted to award former Commander of U.S. Strategic Command and former Astronaut General Kevin P. Chilton the 2011 National Space Trophy. Former Astronaut and RNASA Board of Advisors member, Daniel Brandenstein, said Chilton was being "recognized for his leadership and efforts to promote understanding and support for the strategic importance of our national space assets and our nation's civilian and military space programs."

Chilton remembers his parents waking him up in the wee hours of May 5, 1961 to watch Alan Shepard's launch on a little black and white TV in their California home. "I had no inkling that was something I'd want to do or be able to do," he told RNASA. But flying ran in the family. His father Jim was a flight test engineer, his uncle was a United Airlines pilot, and his mother Shirley had been an American Airlines stewardess. He also grew up near the Los Angeles International Airport. "So I was exposed to aviation early on," he admitted.

Chilton in T-38 *(NASA photo)*

Born in Los Angeles in 1954, he attended St. Bernard High School in Playa del Rey, California where he was taught by the Sisters of Charity from Leavenworth, Kansas. He said they "had a big influence on me." Years later, he invited them to watch him launch into space.

After high school graduation in 1972, he attended the USAF Academy in Colorado. His first solo flight was in a sail plane there. He noted, "The same skills I learned on that very first airplane, which was a glider, were useful in landing the shuttle because it was a glider, too." In 1976, Chilton earned his BS in engineering sciences and his Air Force commission. He then completed a master's degree in mechanical engineering on a Guggenheim Fellowship at Columbia University of New York in 1977.

Air Force Pilot

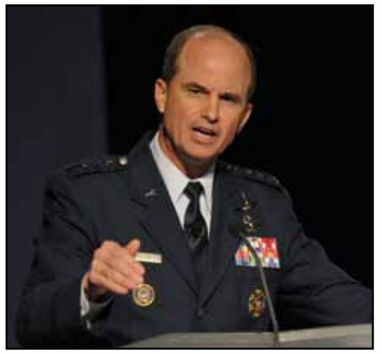
Chilton received his wings at Williams Air Force Base (AFB), Arizona in 1978. He qualified in the RF-4 Phantom II and was assigned to the 15th Tactical Reconnaissance Squadron at Kadena Air Base, Japan. From 1978-80, he flew the RF-4 in Korea, Japan, and the Philippines. In 1981, he converted to the F-15 Eagle and was assigned to the 67th Tactical Fighter Squadron at Kadena.

In 1982, Chilton attended the USAF Squadron Officer School at Maxwell AFB, Alabama, and finished as the number one graduate that year, receiving the Secretary of the Air Force Leadership Award.

Subsequently assigned to the 9th and 7th Tactical Fighter Squadrons at Holloman AFB, New Mexico, Chilton flew F-15s until 1984. His F-15 instructor first called him "Chili," a nickname that fellow F-15 pilot, Brian Duffy, would carry forward to the Astronaut Office years later.

In 1984, Chilton was selected for the USAF Test Pilot School at Edwards AFB, California. While at Edwards, he shared some classes with a physics graduate and First Lt. named Cathy who was enrolled in the Test Engineering Course. They were married in 1988.

Graduating number one in his class in 1984, Chilton was assigned to Eglin AFB, Florida, where he flew all models of the F-15 and F-4 and served as an officer in the 3247th Test Squadron.



Gen. Kevin Chilton
(Photo by Dan Rohan, 10-08-10)

NASA Astronaut

Selected by NASA in 1987, Chilton first served as pilot of Endeavour on STS-49 in May 1992. The mission (commanded by Dan Brandenstein) utilized the first-ever three-person EVA to retrieve Intelsat VI which needed a new upper stage to reach geosynchronous orbit. Chilton called this retrieval the biggest challenge he faced on a spaceflight.

Chilton piloted Endeavour again on STS-59, the Space Radar Laboratory (SRL) mission, in April 1994. SRL consisted of three large radars and a carbon monoxide sensor that studied the Earth.

He commanded Atlantis on STS-76 in March 1996. This third docking mission to the Russian Space Station Mir transferred NASA Astronaut Shannon Lucid and accomplished the first spacewalk from the shuttle while docked to a space station.

Cont. next page

ROTARY INTERNATIONAL

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT 25th Anniversary 2011

Kevin P. Chilton

★★★★

2011 NATIONAL SPACE TROPHY WINNER

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While at NASA, Chilton also served as lead capcom, T-38 safety officer, and he supported the Infrared Background Signature Survey satellite and the Orbital Maneuvering Vehicle programs. He also squeezed in some time as lead guitarist for the astronaut band, Max Q.

Following his last flight, Chilton was deputy program manager for the ISS Program, a task he cited as one of his biggest challenges at NASA. In this role, Chilton worked closely with his Russian counterparts to develop partnering agreements which were the basis for future international participation. He said he is "very proud to have been part of the great NASA team."

Military Commander

Chilton left NASA in 1998. He served on the Air Force Space Command Staff, and then the Air Staff, the Joint Staff, the 9th Reconnaissance Wing, the 8th Air Force, and the Joint Functional Component Command for Space and Global Strike. He was promoted to four-star general on June 26, 2006, the first former astronaut to reach this rank.

As Commander, Air Force Space Command from July 2006 to October 2007, Chilton oversaw a global network of satellite command and control, communications, missile warning and launch facilities. He instituted a "back to basics" approach at the Space and Missile Systems Center which resulted in an unprecedented 51 consecutive successful national security space launches.

Chilton's leadership also ensured the Eastern and Western Ranges successfully supported 26 launch operations, including the Space Shuttle, spacelift, missile defense and ballistic missile testing. Also, during his command, the Evolved Expendable Launch Vehicle Program achieved full operational capability.

Chilton significantly improved implementation of the command's number one mission priority to evolve from space surveillance to true space situational awareness (SSA). He developed future links for SSA and refined tactics, techniques and procedures to standardize and improve analysis of space threats.

In January 2007, Chilton watched over the operational and intelligence integration to track and assess the Chinese anti-satellite test, the largest space breakup event in history. This endeavor fused traditional with non-traditional warning sources to verify that no friendly satellites were at risk from the debris.

From 2007 to 2011, Chilton commanded U.S. Strategic Command, in charge of 40,000 people, including USAF, army, navy, and marine personnel. He noted that leadership is "all about building a team," and that he "enjoyed working with all of them." Commander Chilton was responsible for all nuclear weapons, "including nuclear missiles, subs, and nuclear bombers," he explained, as well as operations of all U.S. forces conducting strategic deterrence. "What we were doing was absolutely critical to the United States."

One of the high points of his tour was the successful execution of Operation Burnt Frost. Analysts had determined a non-functional National Reconnaissance Office (NRO) satellite carrying a tank of 1,000 pounds of hydrazine fuel could be a threat to human life. Chilton led the planning and coordination of more than two dozen federal agencies, including Missile Defense Agency, the NRO, NASA and the Pacific Command that took the action to shoot down the satellite on Feb. 20, 2008.

cont. on page 34

STS-49 Landing of Endeavour, Chilton during STS-59, Mir during STS-76 *(NASA photos)*

ROTARY INTERNATIONAL

Miles O'Brien

★★★★

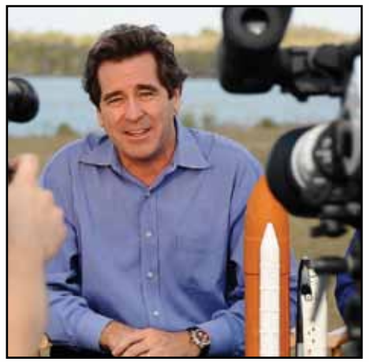
2011 RNASA EMCEE

The RNASA Foundation is excited to have broadcast news veteran Miles O'Brien as Master of Ceremonies for our 25th annual gala.

O'Brien owns Miles O'Brien Productions, LLC, a private production company based in Washington, D.C. Through his company, he creates engaging stories for various media outlets including the PBS NewsHour, FRONTLINE, Discovery Science Channel, National Science Foundation, Spaceflightnow.com and various corporate clients.

O'Brien was born in Detroit, Michigan in 1959 and grew up in Grosse Pointe Farms. He earned a history degree from Georgetown and began his broadcasting career in 1982 at WRC-TV in D.C. 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 producing stories for CNN's daily programming and writing and hosting the weekly broadcast "CNN Science & Technology Week."

While with CNN in Atlanta and New York, O'Brien served as CNN's science, space, aviation technology, and environment correspondent. He anchored news and talk programs, including Science and Technology Week, CNN Saturday and Sunday Morning, Talkback Live, Headline News Primetime, CNN Live From, and CNN American Morning. O'Brien's reports of Hurricane Katrina in 2005 helped earn CNN a Peabody award. He left CNN in December 2008.



O'Brien during STS-133
(Photo courtesy Miles O'Brien, 2011)

Miles O'Brien *(NASA photo)*

O'Brien has covered all aspects of human and unmanned spaceflight. He reported on the first and subsequent repair missions to the Hubble Space Telescope, the shuttle dockings at Mir, the launch of the first space station crew from Kazakhstan, John Glenn's return to space in 1998, several robotic landings on Mars, and the private sector endeavors such as the winning of the Ansari X-Prize. He created a documentary, "Terminal Count: What it Takes to Make the Space Shuttle Fly" in 2001, and continued coverage of the successful Mars Exploration Rovers, Spirit and Opportunity, that began their travels in 2003. He began serving as Chairman of the NASA Advisory Committee's Education and Public Outreach Committee in 2009. (He's on leave until this June.)

When the Space Shuttle Columbia and its crew were lost in 2003, O'Brien came to Johnson Space Center and prepared in-depth reports on the investigation and return-to-flight in 2005. Unknown to viewers at the time, the loss of Columbia represented the sudden end of a long-held dream for O'Brien. Only days before (and after years of negotiations) CNN and NASA had reached an agreement that would have made O'Brien the first journalist to fly on the Space Shuttle and to visit the International Space Station.

A third-generation pilot with an instrument rating, O'Brien grew up flying Cessnas and Pipers rented by his father. He has owned a Cirrus SR-22 for the past six years.

O'Brien has reported extensively on civil aviation issues and crash investigations, including the 2001 terrorist attacks. He also anchored much of CNN's coverage of the war in Iraq and Afghanistan, explaining the intricacies of military aviation techniques and strategy. In 2009, a documentary shot by O'Brien and his wife Sandy called, "Over Africa, Flying Low and Slow with Kenya Wildlife Service," appeared at air shows across the country and in the IMAX theater at the Air & Space Museum in Washington, D.C.

The RNASA Foundation recognized O'Brien with a Space Communicator Award in 2002. He first served as emcee for the RNASA gala in 2003, returning in 2004 and 2005, and again for the past four years.

Hon. Edward Emmett

★★★★

2011 RNASA WELCOME ADDRESS

The RNASA Foundation is pleased to have Harris County Judge Edward M. Emmett welcome attendees to the 25th annual awards gala. Emmett has served as Harris County, Texas's top official since March 2007. He also serves on numerous boards and committees, including chairman of the Harris County Juvenile Board, and the Juvenile Detention Alternatives Initiative Executive Steering Committee.

Emmett attended Bellaire High School. He graduated from Rice University in 1971 with a bachelor of arts degree in economics. In 1974, he graduated from the University of Texas at Austin with a master's of public affair's degree.

A member of the Texas House of Representatives from 1979 to 1987, Emmett was chairman of the Committee on Energy, a member of the Transportation Committee, and represented the state on numerous national committees relating to energy and transportation policy.

In 1989, President George H. W. Bush nominated Emmett as a commissioner at the Interstate Commerce Commission. After being confirmed unanimously by the United States Senate, Emmett served on the commission for three years.

Judge Emmett State of the Country Address
(Photo by Dabfoto Creative/David A. Brown, March 2011)

Emmett has a wide breadth of experience in transportation and logistics policy. He was named one of the Top 20 Logistics Professionals by the Logistics Forum in 2003, and the Transportation Clubs International gave him its "Transportation Person of the Year" award in 2005.

He was appointed judge in March, 2007, elected in 2008, and reelected in 2010. He currently oversees a budget of about $1.2 billion serving more than 4 million people in the third-largest county in the United States.

Judge Emmett at flood control meeting
(Photo courtesy Harris County)

Emmett also is director of Harris County's Office of Homeland Security and Emergency Management, a role that took on special significance when Hurricane Ike struck the Gulf Coast in September 2008.

During his State of the Country address in March, Emmet said, "the current State of the County is financially challenging, but from that challenge can come a clearer focus. … As a former legislator, I am confident that our state will live up to the words in our state song, 'We are the boldest and grandest.' Now is the time for boldness, so we may, as the song says, 'grow in power and worth, throughout the ages long.'"

Emmett and his wife, Gwen, have been married for 35 years and have four children and seven grandchildren.

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT 25th Anniversary 2011

Col. Steven W. Lindsey, USAF (Ret.)

★★★★

2011 NATIONAL SPACE TROPHY PRESENTER

Col. Steven W. Lindsey, USAF (Ret.) is presenting the National Space Trophy to General Chilton. A veteran of five space flights, Lindsey was the mission commander on the final flight of Space Shuttle Discovery this spring.

Born August 24, 1960, in Arcadia, California., Lindsey considers Temple City, California, to be his hometown. He has a BS in engineering sciences from the USAF Academy. After four years with the 12th Tactical Reconnaissance Squadron at Bergstrom AFB, Texas, he attended graduate school at the Air Force Institute of Technology, Wright-Patterson AFB, Ohio. He earned a MS in aeronautical engineering there in 1990. He's also a distinguished graduate and recipient of the Liethen-Tittle Award as the outstanding test pilot of the USAF Test Pilot School Class 89A.

In 1990, Lindsey was assigned to Eglin AFB, Florida as an experimental test pilot, where he was an F-16 Flight Commander. In1993, Lindsey attended Air Command and Staff College at Maxwell AFB, Alabama. Upon graduation in 1994, he was reassigned to Eglin as an Integrated Product Team leader in the USAF SEEK EAGLE Office.

Lindsey during STS-133
(NASA photo)

Selected by NASA in 1995, Lindsey first flew as pilot of Columbia on STS-87 in 1997. This was the fourth U.S. Microgravity Payload flight. During one of two EVAs to test space station equipment, Lindsey piloted the first flight of the AERCam Sprint, a free-flying robotic camera.

His second flight was as pilot of Discovery on STS-95 in 1998. This 9-day mission included the deployment and retrieval of the Spartan solar-observing spacecraft, the Hubble Space Telescope orbital systems test platform, and the flight of the oldest human in space, Senator John Glenn, Jr. who was then age 77.

Lindsey commanded the crew of STS-104 in July, 2004, a flight of the Space Shuttle Atlantis. This tenth mission to the International Space Station delivered, installed, and first utilized the Quest airlock.

STS-121, the second return-to-flight test mission after the Columbia accident, was commanded by Lindsey. Flying Discovery in July 2006, the 13-day flight tested new equipment and procedures that increase the safety of space shuttles, repaired a rail car on the International Space Station and produced never-before-seen, high-resolution images of the Shuttle during and after its July 4th launch.

Lindsey retired from the Air Force in September 2006 and served as chief of the Astronaut Corps until his assignment as commander of STS-133, the final flight of Discovery. STS-133 launched on February 24, 2011. The mission transported the logistics carrier, Leonardo, to its permanent docked location on one of the space station's ports. The shuttle also carried the third of four ExPRESS logistics carriers and the humanoid robot, Robonaut. The mission was the 133rd flight of the Space Shuttle Program as well as the 39th and final flight of Discovery, with the orbiter completing a cumulative total of a whole year (365 days) in space when it landed on March 9, 2011.

Lindsey *(NASA photo)*

Lindsey has been recognized with numerous awards throughout his career, including; the Legion of Merit, Distinguished Flying Cross, Defense Superior Service Medal, Defense Meritorious Service Medal, 4 NASA Space Flight Medals, NASA Outstanding Leadership Medal, NASA Distinguished Service Medal, NASA Exceptional Service Medal, Air Force Meritorious Service Medal, Air Force Commendation Medal, Air Force Achievement Medal, and Aerial Achievement Medal. He's a member of the Society of Experimental Test Pilots, USAF Academy Association of Graduates, and the Association of Space Explorers.

Lindsey is married to the former Diane Renee Trujillo. They have three children. He enjoys reading, skiing, scuba diving, windsurfing, camping, mountain biking, and dirt biking.

ROTARY INTERNATIONAL

Stephanie D. Wilson

★★★★

2011 RNASA STELLAR AWARD PRESENTER

The RNASA Foundation is pleased to have Astronaut Stephanie D. Wilson present Stellar Awards this year. She is a veteran of three flights on the Space Shuttle Discovery.

Born in 1966 in Boston, Massachusetts, Wilson earned her B.S. in engineering from Harvard University in 1988. She worked for two years for the former Martin Marietta Astronautics Group in Denver, Colorado. As a loads and dynamics engineer for the Titan IV rocket, Wilson was responsible for performing coupled loads analyses for the launch vehicle and payloads during flights. Wilson left Martin Marietta in 1990 to attend the University of Texas where she earned her MS in engineering science in 1992.

Wilson then took a position as a member of the Attitude and Articulation Control Subsystem for the Galileo spacecraft at the Jet Propulsion Laboratory (JPL) in Pasadena, California. Wilson also supported the Interferometery Technology Program as a member of the Integrated Modeling Team.

Selected by NASA in 1996, Wilson became the second African American woman to fly in space. Her first flight on Discovery was the second return-to-flight test flight, STS-121, commanded by Steve Lindsey that launched on July 4, 2006. Wilson supported robotic arm operations for vehicle inspection, multi-purpose logistics module (MPLM) installation, and EVAs. She also was responsible for the transfer of more than 15,000 pounds of supplies and equipment to the ISS. The mission delivered Expedition 13 crew member Thomas Reiter to the station. Discovery landed on July 17, 2006.

Wilson *(NASA photo)*

Her second flight on Discovery, STS-120, launched on October 23, 2007. The flight delivered the Harmony node to the ISS and carried Expedition 16 crew member Dan Tani and returned Clayton Anderson from the ISS. During the flight, the P6 solar array was re-located from the Z1 (central) truss to the end of the port side. During the re-deploy of the array, the panels snagged and were damaged. An unplanned spacewalk was successfully performed to repair the array.

Wilson was again responsible for robotic arm operations and also served as the flight engineer. She was one of a record of four women in space at the same time, including ISS Commander Peggy Whitson, Shuttle Commander Pam Melroy, and Wilson's fellow Mission Specialist Wendy Lawrence. Discovery landed at KSC on November 7, 2007.

Wilson during STS-131 *(NASA photo)*

Wilson headed to the ISS onboard the Space Shuttle Discovery a third time on STS-131, which launched at night on April 5, 2010. She was again one of four women in space, including her fellow Mission Specialists Dorothy Metcalf-Lindenburger, Naoko Yamazaki, and Expedition 23 crewmember Tracy Caldwell Dyson. The flight delivered more than 27,000 pounds of supplies and equipment, including a tank full of ammonia that required three spacewalks and robotics to install it, new crew sleeping quarters, and experiment racks. Wilson was responsible for robotics and EVA support. The Leonardo MPLM (which is now permanently attached to the ISS) was packed with more than 6,000 pounds of hardware and science results and returned to Earth in Discovery's payload bay on April 20, 2010.

A member of AIAA, Wilson has logged 42 days in space. She enjoys snow skiing, music, stamp collecting, and (of course) traveling.

Richard R. Arnold II

★★★★

2011 RNASA STELLAR AWARD PRESENTER

The RNASA Foundation welcomes Astronaut Richard R. Arnold II as a Stellar Award presenter this year. Teacher, Aquanaut, and Astronaut Ricky Arnold has braved teaching middle school science in the U.S. and abroad, lived underwater for ten days, and completed two spacewalks on the International Space Station.

Arnold was born in November 1963 in Cheverly, Maryland and grew up in nearby Bowie. He earned his B.S. from Frostburg State University, Maryland, in 1985. He took a position as an oceanographic technician at the United States Naval Academy in 1987 while he worked on his teacher certification from Frostburg. Upon completing his certification in 1988, Arnold became a science teacher at John Hanson Middle School in Waldorf, Maryland.

While teaching, Arnold conducted research in biostratigraphy at the Horn Point Environmental Laboratory in Cambridge, Maryland. He earned a master's in marine, estuarine and environmental science from the University of Maryland in 1992. He then spent a year working in marine science 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. During that time, he presented workshops at various international education conferences focusing on science teaching methodologies. In 1996, he and his family moved to Riyadh, Saudi Arabia, where he was employed as a middle and high school science teacher and science department chair at the American International School. Arnold was hired by International School Services in 2001 to teach middle school mathematics and science at the International School of Kuala Kencana in West Papua, Indonesia. He accepted a similar teaching position in 2003 at the American International School of Bucharest in Bucharest, Romania.

Selected as a mission specialist educator by NASA in May 2004, he completed astronaut candidate training in February 2006. He was initially assigned to the Hardware Integration Team in the Space Station Branch, working on technical issues with JAXA hardware. In August 2007, Arnold completed aquanaut training and served as a mission specialist on the NASA Extreme Environment Mission Objectives (NEEMO) mission 13. During the 10-day mission, the crew of NEEMO XIII conducted experiments in and around Aquarius, the world's only undersea laboratory.

Arnold *(NASA photo)*

Arnold's first spaceflight was onboard the Space Shuttle Discovery on STS-119 in March, 2009. The launch on March 15 was the 125th of the Shuttle Program and the 36th for Discovery. The flight delivered the fourth starboard integrated truss segment, S6, and the fourth set of solar arrays and batteries to the International Space Station. Japanese Astronaut Koichi Wakata rode up on Discovery and took the place of Expedition 18 Flight Engineer Sandra Magnus who returned with the STS-119 crew. The shuttle flight, commanded by Lee Archambault and piloted by Tony Antonelli, included Mission Specialists John Phillips as well as Arnold's fellow spacewalkers, Steven Swanson and Educator Astronaut Joseph Acaba. Arnold performed two spacewalks totaling 12 hours and 34 minutes. Discovery landed at Kennedy Space Center on March 28, 2009 after twelve days in space. A few months later, Arnold was the guest of honor and delivered the commencement speech to the High School Class of 2009 at Bowie High School.

Arnold during STS-131 *(NASA photo)*

Arnold lives in Houston with his wife Eloise Miller. They have two daughters. Arnold enjoys running, fishing, reading, kayaking, bicycling, ornithology, paleontology, and playing the guitar.

Rotary National Award for Space Achievement Foundation

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The RNASA Board of Advisors nominates and elects the winner of the National Space Trophy (photo on left). These distinguished volunteers are leaders in government, industry, and the media, and are intimately involved with the space program.

Rotary National Award for Space Achievement Foundation

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Night launch of STS-76 March 22, 1996. (NASA photo)

25 Years

1987-2011 National
Space Trophy Recipients

Starting at 12 o'clock (clockwise):

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

6:00 RECEPTION
Victoria Reva, pianist

7:00 WELCOME
Rodolfo González, Chairman, RNASA Foundation
Honorable Edward Emmett, Harris County Judge

PRESENTATION OF THE COLORS
Clear Creek High School Army JROTC Color Guard

NATIONAL ANTHEM
Bianca Higgins, Clear Springs High School, CCISD "So You Think You Can Sing" Winner

INVOCATION
Father Vincent Nguyen, Pastor, St. Claire of Assisi Catholic Church, Clear Lake

DINNER

8:15 YEAR-IN-REVIEW VIDEO
Space City Films

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Miles O'Brien, Miles O'Brien Productions

MULTIMEDIA PRODUCTION
Space City Films

PRESENTATION OF STELLAR AWARDS
Stephanie D. Wilson, NASA Astronaut
Richard R. Arnold II, NASA Astronaut

PRESENTATION OF NATIONAL SPACE TROPHY to GENERAL CHILTON
Col. Steven. W. Lindsey USAF (Ret.), NASA Astronaut

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

RECOGNITION OF SPONSORS AND CLOSING

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT 2011
25th Anniversary

RNASA FOUNDATION
★★★★
COMMITTEE

The Rotary National Award for Space Achievement Foundation is proud to be celebrating the 25th anniversary of recognizing the people whose exemplary work in the field of space exploration has had, and will continue to have, lasting benefits to the nation and world.

Established by the Space Center Rotary Club, the RNASA Foundation presented the first National Space Trophy to Dr. Maxine Faget in 1987. The names and images of the first 25 years worth of winners appears on page 18. Individuals are nominated by leaders in government, industry, and professional organizations. The winner is then selected by a vote of the Foundation's Board of Advisors (page 16) that includes current and former NASA center directors, leaders of aerospace corporations, space journalists, and previous award recipients. BoA members can be identified by their red lapel ribbons. The confidential votes are tabulated by an independent accounting firm.

Since 1989, the RNASA Foundation has also recognized the "unsung heroes" of the space program with Stellar Awards (pages 24-33) for individual and team achievements. Space Communicator Awards have been presented six times. Three individuals, Dr. Robert Gilruth (1992), Capt. John Young, USN (Ret.) (1997), and Walter Cronkite (1999) were honored with Corona Awards for superior lifetime achievements.

The RNASA Foundation is a nonprofit organization that depends on corporate sponsorships (page 17) to create an event that has become the "Academy Awards of Space Achievement." Excess funds remaining after event expenses are donated to space-related educational programs. Past recipients include the National Flight Academy adjacent to the National Museum of Naval Aviation in Pensacola, Florida; Parks College of Engineering at St. Louis University; Purdue; the University of Houston-Clear Lake; the U.S. Space and Rocket Center Foundation to support Space Camp; and the Wings of the Eagle Foundation.

RNASA Foundation Committee. Back row L to R: Jayant Ramakrishnan, Daniel Weber, Bill Taylor (Vice Chairman), Robert Wren, Marcus Havican, Joseph Mayer, Duane Ross, Richard Larson. **Middle row L to R**: Gary Johnson, Jack Lister, Shelley Baccus, Mary Alys Cherry, Rodolfo González (Chairman), Marianne Dyson, Jeannie Kranz, Floyd Bennett, Bill Geissler. **Front row L to R**: L. Jean Walker (Secretary), Jennifer Mitchell, Geoff Atwater (Treasurer), Frank Perez, Irene Chan, Susan Gomez. **Not pictured**: Kippy Caraway, Jeff Carr, David Coney, Jess Davis, Steven Fredrickson, Jacinda Green, Miguel Hernandez, Nicole Kem, Tim Kropp, Diana Norman, Branelle Rodriguez, and Lori Wheaton. *(Photo By J. Pamela, 2011)*

Since 1999, the RNASA Foundation has also supported the Texas High School Aerospace Scholars program with donations that allow more students to participate. Students are nominated by their Texas state legislator through a competitive process, and then complete ten on-line lessons to qualify for a week-long summer workshop at Johnson Space Center. More than 9,000 students have participated in the program which includes briefings by engineers, scientists, and astronauts; and then working as members of teams to design realistic space settlements.

The Foundation is grateful for the enthusiasm and support it has received during its 25-year history. The support from the aerospace industry, educational organizations, NASA, and the Department of Defense assures the continued recognition of outstanding achievements in space exploration and support of the next generation of space explorers.

KRAFT, LUNNEY, ALDRICH

★★★★

2011 STELLAR EVALUATION PANEL

Christopher C. Kraft Jr., Glynn S. Lunney, Arnold D. Aldrich *(RNASA)*

The RNASA Foundation congratulates the 151 Stellar Award nominees for 2011. "We had a record number of nominees this year," reported Jennifer Mitchell, the RNASA Stellar Awards Committee chairman. The nominations are solicited each year from government, military, and industry leaders in four categories. The Foundation received 29 early career, 51 mid-career, 35 late career, and 36 team nominations. NASA nominated 19 individuals and seven teams, the USAF nominated five individuals and four teams, and industry nominated 91 individuals and 25 teams.

The nominations are reviewed by a Stellar Awards Evaluation Panel led by the legendary Dr. Christopher C. Kraft, Jr. Kraft has been involved with the RNASA awards from the beginning, as a member of the RNASA Board of Advisors, and has served as a RNASA Stellar Award evaluator since 1997.

From Phoebus, Virginia, 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. He created the engineering and operations organization that designed and controlled the first human missions.

Dr. Kraft was the first flight director, and held that position for all of Mercury, and the first seven flights of Gemini. He led Flight Operations through Apollo 12. He became the director of what is now Johnson Space Center after its first director, Robert Gilruth, transferred to NASA Headquarters in 1971. Kraft played a vital role in the success of the final Apollo missions and the first Space Shuttle flights.

He retired in 1982 and 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*, was published in 2001 and was a New York Times best-seller. Kraft has received numerous awards, including the 1999 National Space Trophy.

The 2005 National Space Trophy winner, Apollo flight director and Shuttle manager Dr. Glynn S. Lunney, served for the eighth year on the Stellar Awards Evaluation Panel.

Lunney graduated from the University of Detroit in 1958. He worked at the Lewis (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.

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.

Another Space Task Group veteran, Arnold Aldrich, served for his third year on the RNASA Stellar Award Evaluation Committee.

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.

Capt. Gregory C. Johnson, USN (Ret.) *(NASA photo)*

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 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.

Prior to this evening's banquet, Stellar Awards nominees (wearing blue ribbons) enjoyed a behind-the-scenes tour of Johnson Space Center and were recognized at a special luncheon at the Nassau Bay Hilton. STS-125 Hubble Servicing Mission pilot Captain Gregory C. ("Ray J") Johnson, USN (Ret.) was the featured luncheon speaker. After his presentation, the nominees received certificates and commemorative RNASA Fisher Space Pens.

Stellar winners are selected based on which accomplishments hold the greatest promise for furthering future activities in space, the extent to which the nominee played a key role in the accomplishment, and the extent to which the nominee meets the goal of recognizing "unsung heroes."

The winners will receive engraved marble trophies this evening from Stellar Award presenters Astronauts Stephanie D. Wilson and Richard R. Arnold, II. The RNASA Foundation is pleased to congratulate all the Stellar Award nominees and winners for their outstanding accomplishments.

Early Career Category

★★★★

2011 RNASA STELLAR AWARD NOMINEES

Anthony P. Bartolone of NASA Kennedy Space Center - Outstanding leadership to the Space Shuttle Program as the external tank/solid rocket booster lead project engineer, integrating a large multi-center team to minimize impacts to shuttle launch operations.

Kevin R. Beaulieu of Barrios Technology - Innovative application and exceptional technical knowledge in the area of image processing and analysis providing safety assurance to astronaut crews.

Andrew C. Clifton of Lockheed Martin Space Systems Company - Exceptional group leadership and effective NASA customer interface in maximizing value and meeting Orion milestones.

Brian R. Corriveau of Pratt & Whitney Rocketdyne - Successful early career progression from expert structural engineer to rocket engine program analysis coordinator.

Ryan L. Dardar of Lockheed Martin Space Systems Company - Exceptional performance on the Orion Crew Module Team in performing design, analysis and proof testing of the Orion ground test article.

Alton Davenport of Lockheed Martin Space Systems Company - Outstanding dedication to delivering products of the highest standard on the Orion Crew Module Structures Team.

Dr. Kevin Duda of Draper Laboratory - Excellence and innovation in research and development of human system collaboration for crewed landing systems.

Lee F. Echerd of ARES Corporation - Exceptional dedication and commitment to preserving United States access to space and avenues for International Space Station (ISS) resupply.

Michelle M. Gonzalez of ATK - Outstanding achievements on the deceleration system for Ares I and fast track qualification of the booster separation motors, enabling the advancement of human spaceflight.

Stephan Higgs of Oceaneering Space Systems - Outstanding leadership, unwavering attention to detail and exemplary work ethic in managing the mission support and crew training associated with extravehicular activity space hardware.

Robert L. Hirsh of NASA Johnson Space Center - Outstanding contributions to the advancement of autonomous systems, software, and robotics for human space exploration.

2010 Stellar Awards Winners in Early Career Category

L to R: Astronaut Michael Foreman (presenting), White, Vyoral, Putnam, Peterson, Prouty, Kelly, Astronaut Megan McArthur (presenting). (NASA, 2010)

Early Career Category Continued

★★★★

2011 RNASA STELLAR AWARD NOMINEES

Joshua L. Hodges of the United States Air Force - Exceptional technical ability applied to the design of innovative measurement apparatuses for characterizing charge migration and material degradation and their effects on mission critical spacecraft materials.

Capt. Patrick R. Jackson of the United States Air Force - Extraordinary leadership in completing remaining system engineering tasks on the next generation Global Positioning System satellite, ensuring improved capabilities and reliable accurate navigation for all users for years to come.

Rafael Jimenez of NASA Johnson Space Center - Exceptional innovation and technical excellence in creating an integrated propulsion system testbed utilizing a commercial/government partnership.

Tim A. Kassebaum of J and P Technologies - Significant technical contributions to the Human Spaceflight Program as a systems safety engineer monitoring all aspects of the shuttle propulsion system.

Saman Kholdebarin of MEI Technologies - Performance surpassing expectations as development lead for critical test equipment of the Thermal Infrared Sensor Program.

Brett E. Killian of Lockheed Martin Space Systems Company - Outstanding support and excellent finite element stress analysis of the Orion Program crew module.

Dr. Scott L. Klempner of the United States Air Force - Exceptional leadership during the delivery and launch of Advanced Extremely High Frequency Flight 1 (AEHF-1) and contributions to the AEHF-1 orbital recovery plan following a major anomaly.

John H. Lawlor of Lockheed Martin - Technical excellence in the development of the Orion crew impact attenuation system to ensure crew safety and optimum performance.

Adele Luta of Barrios Technology - Exceptional contributions in extra vehicular activity training and flight operations during a very aggressive time period in space operations history.

Michael Marando of Pratt & Whitney Rocketdyne - Outstanding efforts to ensure safe flight of space shuttle main engines.

Lindsay A. Powell of The Boeing Company - Exceptional skill, professionalism and dedication on the Space Shuttle Program Ascent Loads Team.

Sofia I. Russi of the United States Air Force - Distinguished service as officer in charge of training for USAF Eastern Range Atlas V Launch Operations, resulting in nine successful launches, and as the current operations lead for the USAF's only end-to-end intercontinental ballistic missile engineering test facility.

Susan V. Schuh of MEI Technologies, Inc. - Exceptional dedication and outstanding effort producing the first searchable archived ISS Crew Comments Database established at NASA.

Stephanie A. Sipila of NASA Johnson Space Center - Sustained leadership and superior efforts to support the future of the ISS through successful extravehicular activity.

Ryan P. Starn of L-3 Communications - Exceptional contributions to NASA Space Station Program regenerative life support system software reliability and robustness and development of innovative system software modeling augmenting independent verification and validation methods.

Jerald A. Webber of The Boeing Company - Excellence and innovation in development and implementation of improved shuttle propulsion systems modeling and analysis tools, reducing engineering analysis time and improving flight safety.

Andrea Wilkinson of Hamilton Sundstrand - Key contributions to return-to-flight efforts for shuttle mechanical flight controls, and leadership of shuttle flight support.

Stephen D. Zenter of United Space Alliance - Outstanding efforts as the lead on-board data interfaces and network flight controller for ISS Flight ULF-4 and Increment 23/24.

The launch of Endeavour on STS-59, with Kevin Chilton as pilot, was captured by Karen Dillon of San Jose, California, who observed the liftoff from the NASA causeway in Florida on April 9, 1994. Other crewmembers onboard were Sidney Gutierrez (Commander), Linda Godwin, Jay Apt, Michael Clifford, and Thomas Jones. *(NASA photo)*

Mid-Career Category

★★★★

2011 RNASA STELLAR AWARD NOMINEES

Rebecca Barry of Vision Analytics, Inc. - Outstanding leadership and critical capability to human spaceflight strategic assessments.

Olga Bauman of TechTrans International - Outstanding leadership of the Johnson Space Center Language Education Center, development of innovative mission-oriented language training, and seamless coordination with affiliates at Gagarin Cosmonaut Training Center, ensuring that ISS crews have the language skills needed to work safely and successfully on orbit.

Thomas E. Booth of Pratt & Whitney Rocketdyne - Exceptional leadership and dedication in data analysis and performance prediction for the RS-68A development and certification program.

Christopher G. Boree of Lockheed Martin Space Systems Company - Exceptional leadership, technical excellence and dedication in the development of the Attitude Control Motor Valve Control System and Launch Abort Systems (LAS) instrumentation culminating in the successful flight test of the Orion LAS for Pad Abort 1.

Marc R. Bouffard of Pratt & Whitney Rocketdyne - Outstanding support and commitment to the Space Shuttle Main Engine Program.

LeRoy E. Cain of NASA Johnson Space Center - Outstanding leadership as Chairman of the Space Shuttle Program Mission Management Team.

Gabrielle C. Cockrell of Wyle Integrated Science and Engineering Group - Pioneering approaches to enhance mission success and minimize ISS on-orbit crewmember concerns for their families back home by ensuring that both crewmembers and their families receive exceptional support.

Scott Connally of Pratt & Whitney Rocketdyne - Outstanding engineering expertise in assuring mission readiness of the RD-180 booster engine for both Atlas III and Atlas V programs.

Dawn M. Diecidue-Conners of Lockheed Martin - Outstanding and sustained service in execution of Space Shuttle Program external tank certificate-of-flight readiness requirements.

Michael S. Dimel of The Boeing Company - Noteworthy contributions to the Space Shuttle Program as Mission Support Room Team leader, including extensive knowledge of the space shuttle systems and its operations.

James M. Engle of The Boeing Company - Outstanding leadership in implementing systems engineering and integration processes and techniques in support of the Space Shuttle Program.

Frances Ferris of The Boeing Company - Outstanding leadership in addressing technical issues associated with space shuttle orbiter vehicle design and operations.

Randy J. Fitz of ATK - Personal dedication and accomplishments instrumental in the successful production of reusable solid rocket motor (RSRM) and RSRM vehicle energetic components and hardware.

James A. Galbraith of Oceaneering Space Systems - Unparalleled knowledge of human spacecraft materials and processes and related testing, analysis, investigation and approval for human rated spacecraft hardware.

Gregory J. Gentry of The Boeing Company - Outstanding support to the Space Station Program for design and operation of the environmental control and life support system.

Shawn M Greenwell of NASA Kennedy Space Center - Superior leadership and unmatched dedication to the Space Shuttle Program integrating a large multidiscipline launch team to ensure the safe and successful processing and launching of the space shuttle fleet.

Michelle B. Guillot of Lockheed Martin Space Systems Company - Exceptional accomplishments in development and implementation of thermal protection systems on the space shuttle external tank.

Jennifer P. Hall of United Space Alliance - Outstanding dedication and leadership contributions to space shuttle operations in support of successful human spaceflight.

Kenneth A. Head of Pratt & Whitney Rocketdyne - Exceptional support to the Space Shuttle Main Engine Program including technical knowledge of high pressure turbomachinery, turbine aerodynamics, secondary flow and thermal analysis.

Mark Jackson of Draper Laboratory - Excellence in the development and integration of guidance, navigation and control systems for the Orion crew vehicle.

Robert P. Janney of Wyle Integrated Science and Engineering - Successful leadership of the evolution of biomedical flight controllers and medical operations support for shuttle and International Space Station (ISS) from a back-room-only support function to a critical element of the Mission Control Team.

Scott Johnson of NASA Johnson Space Center - Exceptional leadership, commitment to teamwork, and dedication to professional excellence resulting in safe and successful space shuttle missions.

Jennifer L. Kimball of United Space Alliance - Outstanding leadership of the U.S. and Russian Guidance, Navigation and Control Flight Control Teams supporting Space Station Flight Operations.

Anne Y. Kotake of Pratt & Whitney Rocketdyne - Outstanding support to the successful certification of the RS-68A engine system.

Kenneth D. Kueny of Orbital Sciences Corporation - Extraordinary efforts to develop a suite of simulators for software development and integration with the ISS.

2010 Stellar Awards Winners in Middle Career Category
L to R: Astronaut Megan McArthur (presenting), Mason, Kakuska, Fitzgerald, Campbell, Bell, Menkin, Wiley, Willcoxon, Zeitler, and Astronaut Michael Foreman (presenting) (NASA, 2010)

Matthew D. Lansing of NASA Marshall Space Flight Center - Exceptional contributions and nationally recognized expertise in the area of high performance nonmetallic materials and processes.

Terry C. Lee of Lockheed Martin Space Systems Company - Outstanding leadership and oversight of the shuttle external tank build activities in Final Assembly/B420 Test and Checkout.

Donn A. Liddle of MEI Technologies, Inc. - Demonstrated technically gifted and skilled professional leadership of the NASA Johnson Space Center Photogrammetry team/Image Science and Analysis Group.

Gregory Loe of Honeywell - Outstanding technical excellence in development and implementation of entry flight control system in support of Orion crew module design.

Ricardo A. Machin of NASA Johnson Space Center - Sustained demonstration of uncompromising technical excellence and exceptional leadership in support of safe human spaceflight.

Michael J. Massie of ARES Corporation - Outstanding leadership and technical excellence in large scale integrated hazard analysis for human spaceflight.

Manuel Mauricio of Jacobs Technology - Exceptional service developing state-of-the-art spaceflight systems for NASA and international partners at the Johnson Space Center.

Michelle L. Meerscheidt of MEI Technologies, Inc. - Exceptional and expert contributions to space shuttle propulsion testing and safety programs.

Alicia C Mendoza of NASA Kennedy Space Center - Exceptional leadership of the NASA Launch Vehicle Processing Directorate to implement the Agency's goal of safe completion of the Space Shuttle Program while helping lead the nation's Space Program into the future.

Katrien L. Morgan of ARES Corporation - Exemplary contributions to the development of future visiting vehicle requirements to enable successful integration with the ISS.

William H. Muddle of Pratt & Whitney Rocketdyne - Outstanding dedication, passion, and technical excellence in support of America's Human Spaceflight Program.

Peter P. Nickolenko of NASA Kennedy Space Center - Outstanding leadership and unwavering dedication to the Space Shuttle Program.

Matthew Owens of MEI Technologies - Significant contributions to the Thermal Infrared Sensor Project including multiple field programmable gate array designs.

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Mid-Career Category Continued

★★★★

2011 RNASA STELLAR AWARD NOMINEES

cont. from previous page

Srikanth Parvathaneni of ATK - Extraordinary leadership of safety and quality, achieving results under the intense operational demands of the launch site while maintaining exceptional safety and quality standards.

Timothy W. Reith of The Boeing Company - Outstanding leadership in addressing technical issues associated with space shuttle orbiter vehicle design and operations.

Daniel J. Rybicki of Jacobs Engineering - Exceptional contributions, hard work, and selfless dedication to ensuring the successful development and manufacturing of spaceflight hardware.

Darren J. Samplatsky of Hamilton Sundstrand - Outstanding support of the NASA's Human Spaceflight Program through sound judgment and uncompromising commitment to mission success in technical leadership of the oxygen generation assembly and Sabatier life support systems.

Larry N. Sikes of SAIC - Crucial contributions in establishing the rapid integration and test facility as a world class laboratory for the agency, improving product quality and reliability while mitigating risks by preventing NASA and other agencies from receiving inferior products.

Brian T. Smith of NASA Johnson Space Center - Outstanding dedication and leadership contributing significantly to the success of the International Space Station Program as a lead flight director.

Brian P. Smith of Lockheed Martin - Outstanding contributions to the nation in advancing human-rated spacecraft power systems technology.

Thomas W. Stegman of MEI Technologies - Leadership and technical excellence assuring the DoD Space Test Program Houston 3 payload was successfully delivered and integrated with the ISS on STE-134.

Sujatha Sugavanam of The Boeing Company - Innovative advanced analysis technique to assess random vibration environments of foam-packaged hardware in support of human spaceflight.

Becky J. Thompson of NASA Kennedy Space Center - Outstanding leadership and contributions in support of the shuttle and future programs.

Dr. Edward J. Wassell of MEI Technologies Inc. - Superior contributions advancing micro electro-mechanical systems and detector fabrication processes resulting in positive impacts on quality, scientific data and leading edge innovation.

Maura White of NASA Johnson Space Center - Exemplary support of human spaceflight imagery activities, including tireless support of spaceflight crews in the creation, collection, delivery and exhibition of ISS and Space Shuttle Program imagery products, contributing significantly to mission success.

Martin J. Wilson of United Space Alliance - Leadership, technical expertise and innovation in the development of reusable thermal protection systems to support the Space Shuttle Program.

Pat Rawlings

★★★★

2011 PROGRAM BOOK COVER ARTIST

Pat Rawlings
(Photo courtesy Rawlings)

Science Applications International Corporation (SAIC) sponsored the services of renowned space artist Pat Rawlings to create the original portrait of General Chilton that is on display tonight and is reproduced on the cover. Rawlings painted the portrait for the first National Space Trophy winner in 1987, again in 1991, and for every winner since 2001.

"I enjoy creating a visual tapestry that represents the trophy winner's history and contributions in the field of space," 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). Rawlings uses computer models, topographical maps, and space and family photos to ensure accuracy and to explore the connections between extraterrestrial locations, the history of space exploration, and the possibilities of tomorrow's technology.

Chilton's portrait will be on display with the National Space Trophy at Space Center Houston for the coming year.

Late Career Category

★★★★

2011 RNASA STELLAR AWARD NOMINEES

2010 Stellar Awards Winners in Late Career Category
L to R: Astronaut Michael Foreman (presenting), Henderson, Kan, Witherup, Clubb, and McArthur (presenting). Hartnett not pictured.. (NASA, 2010)

Edward W. Bechtel of Pratt & Whitney Rocketdyne - Outstanding technical leadership and insight in developing combustion device technologies and rocket engine components.

George E. Biggs of ATK - Outstanding technical excellence in the field of avionics development and operations.

Col. John H. Casper of NASA Johnson Space Center - Outstanding leadership in solving complex issues for the Space Shuttle Program, including dual docked operations and launch on need strategies.

Fred Clark of Draper Laboratory - Long term history of excellence in applying statistical techniques to the development and verification of rendezvous and proximity operations for NASA missions.

Gary L. Collier of The Boeing Company - Outstanding support, from preliminary design to fleet implementation, of the orbiter boom sensor system, and continued work to ensure its safe usage in flight.

Glen R. Curtis of ATK - Continuous and visionary leadership instrumental in driving fundamental and lasting improvements in reusable solid rocket motor and Ares I processes and systems and flight hardware robustness and safety.

Ann D. Dorris of United Space Alliance - Outstanding contributions in reconfiguration production innovations and supportability of the International Space Station (ISS) Program.

Michael J. Dunham of The Boeing Company - Exemplary leadership of the Space Shuttle Orbiter Stress, Loads, and Dynamics Team, enabling the Space Shuttle Program to fly safely and with confidence since returning to flight.

Bennie Ray Ferrell of Lockheed Martin Space Systems Company - Outstanding leadership and commitment demonstrated on the Space Shuttle Program.

cont. next page

Late Career Category Continued

★★★★

2011 RNASA STELLAR AWARD NOMINEES

cont. from previous page

Jose M. Fuentes of SAIC - Outstanding contributions to human spaceflight ensuring the safety and mission success of the extravehicular mobility unit.

Joe D. Gamble of MEI Technologies, Inc. - Expert contributions to the Orion Pad Abort 1 drogue parachute oscillation analysis efforts.

Donna L. Herring of United Space Alliance - Visionary and transformational leadership inspiring quality and performance excellence for more than 25 years to the Space Shuttle Program.

Dan E. Jackson of Barrios Technology - Extensive history of outstanding operational leadership, technical excellence and innovative solutions dedicated to providing innovative and high quality tools in support of spaceflight operations.

Kevin Jackson of Orbital Sciences Corporation - Distinguished effort to develop an operationally superior and affordable communications suite for the Cygnus autonomous cargo transfer vehicle.

Linda Karanian of Lockheed Martin Space Operations - Untiring dedication and important contributions to U.S. preeminence in human spaceflight through a unique blend of technical knowledge, understanding of the legislative process, and ability to communicate and integrate between diverse groups ranging from corporate executives, other companies, members of Congress, and political staffers.

Dr. Joy Kelly of Jacobs Technology - Demonstrated strong leadership skills and unparalleled technical expertise by significantly improving the quality and safety on the space shuttle, ISS, and other spacecraft, including reduction of safety related risk.

Philip Lintereur of The Boeing Company - Outstanding team leadership and innovative contributions to improving safety and efficiency of fluids and payload processing for NASA's Human Spaceflight Program.

Paul K. McConnaughey of NASA Marshall Space Flight Center - Outstanding dedication to NASA's technical excellence and delivery of complex system solutions vital to America's scientific exploration of space.

Timothy Nalette of Hamilton Sundstrand - Sustained advances in life support air revitalization technologies for the Human Spaceflight Program.

Duc G. Nguyen of Pratt & Whitney Rocketdyne - Nationally recognized expertise in computer modeling and integrated system optimization of rocket propulsion systems.

Sunil Patel of Hamilton Sundstrand - Masterful team guidance and superb technical contributions to Orion power management and distribution.

Gen. Ellen M. Pawlikowski of the United States Air Force, Air Force Research Laboratory - Visionary leadership of defense space flight in service to the United States.

E. Cary Ralston of ATK - Extraordinary leadership and program management achievement in the execution of human space propulsion programs.

Venkat Ramachandran of Lockheed Martin Space Systems Company - Successful leadership and technical excellence in stress analysis instrumental to the development of the Orion Launch Abort System (LAS) for Pad Abort 1, Orion's first fully integrated, and flawless, flight test of the LAS.

Gregory A. Ray of The Boeing Company - Exceptional technical expertise and leadership in positions of increasing responsibility in engineering and management for the Space Shuttle Team.

Donald E. Reed of NASA Johnson Space Center - Outstanding leadership, technical expertise, and dedication that contributed to the success of the first integrated flight test of the Orion Launch Abort Vehicle Pad Abort 1.

George Roberts of Pratt & Whitney Rocketdyne - Outstanding dedication, professionalism, and technical excellence in supporting human spaceflight for more than 45 years.

Ned J. Robinson of NASA Johnson Space Center - Exemplary service and achievement in system test engineering excellence.

Christopher T. Rodgers of The Boeing Company - Outstanding leadership, vision, and dedication during a 38-year career with America's Spaceflight Program.

Brian Saunders of Pratt & Whitney Rocketdyne - Significant contributions to NASA's Human Spaceflight Program in the area of embedded safety critical software.

Richard A. Schmidgall of NASA Johnson Space Center - Outstanding dedication, perseverance and attention to detail for contract closeout and transition for the Agency's largest complex contract.

Sarma Susarla of L-3 Communications - Outstanding technical excellence and leadership in improving the ISS flight software and supporting artifacts, and an exemplary career finding solutions for NASA.

Roger Wacker of Honeywell - Exceptional comprehension and recognized expertise in the intricate details of the Orion attitude control design.

John G. Welborn of Lockheed Martin Space Systems Company - Outstanding leadership contributions to the Space Shuttle Program.

William Wightman of Oceaneering Space Systems - Stellar design skills and dedication to effective solutions that optimize function, weight, size, reliability, simplicity, risk, and development speed for the U.S. Space Program.

Team Category

★★★★

2011 RNASA STELLAR AWARD NOMINEES

309th Software Maintenance Group Solar Electro-Optical Network Team of the United States Air Force - Exceptional software support by the 309th Software Maintenance Group Solar Electro-Optical Network Team to advance Air Force solar forecasting.

Constellation Earned Value Management (EVM) Team of Stinger Ghaffarian Technologies, Inc. - Tremendous dedication and expertise demonstrated by the Constellation Program Earned Value Team's successful implementation of EVM for program integration.

Demonstration and Science Experiments Team for DoD Air Force Research Laboratory Space Vehicle Directorate of ARES Corporation - Excellence in the development of new space weather measurements in the band around the Earth's magnetic field.

Employee Retention Initiative Team of NASA Kennedy Space Center - Unprecedented efforts to maintain shuttle employee focus and pride during the critical juncture of the Space Shuttle Program closeout.

Stellar Award Trophy. Winners receive a marble trophy similar to the one shown here. *(RNASA)*

Exploration Development Laboratory Pad Abort 1 Team of Lockheed Martin - Outstanding efforts in support of the Orion Flight Test Article Pad Abort 1 test by successfully developing the testbed used for verification.

External Tank Camera Team of Lockheed Martin - Outstanding teamwork in the development, certification and delivery of the space shuttle external tank cameras successfully flown post-Columbia to enhance crew safety.

External Tank (ET) Product Support Team, Kennedy Space Center Operations of Lockheed Martin Space Systems Company - Exemplary demonstrated commitment to mission success and operational excellence during ET-137 / STS-133 repair for flight.

GENIE (Guidance Embedded Navigator Integration Enviornment) Team of Draper Laboratory - Rapid development, integration and flight test of the GENIE flight system to demonstrate autonomous guidance and navigation technologies for precision landing.

Hardware Software Integration of The Boeing Company - Exemplary hardware/software integration and preflight testing of the Japan Aerospace Exploration Agency H-II Transfer Vehicle and the European Space Agency Automated Transfer Vehicle-2.

Hypersonic Combined Test Force of the United States Air Force - Significant contributions to future spaceflight by the Hypersonic Combined Test Force in flight testing the X-51A Scramjet and X-37 orbital test vehicles.

Insulation Development Team of ATK - Exceptional performance in the development of a new insulation liner system for the Ares 5-segment rocket motorInternational Docking System Standard Team of NASA Johnson Space Center - Exceptional achievement in the development of the International Docking System Standard.

Space Shuttle Atlantis photographed by the Mir 21 crew during STS-76, commanded by Kevin Chilton in March 1996. *(NASA photo)*

International Space Station (ISS) Active System Thermal Resources and Operations team of The Boeing Company - Outstanding team effort supporting recovery from the external active thermal control system loop A pump failure on ISS.

ISS Program Science Office of ERC, Inc - Outstanding initiative, scientific knowledge and technical skills exhibited by the International Space Station Program Science Team in maintaining and tracking ISS results and sharing the information with the world through the NASA.gov web portal.

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Team Category Continued

★★★★

2011 RNASA STELLAR AWARD NOMINEES

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ISS Pump Module Recovery Team of NASA Johnson Space Center - Exceptional service in the rapid development and execution of three complex spacewalks that recovered from the loss of cooling to 50 percent of the ISS.

International X-Ray Observatory Development Team of Stinger Ghaffarian Technologies, Inc. (SGT) - Outstanding teamwork furthering telescope flight mirror assembly technologies necessary to meet the science requirements of the International X-ray Observatory.

Large Rocket Motor Static Test Team of ATK - Exceptional technical and operational execution of a five-segment solid rocket motor static test, achieving all test objectives.

Materials and Processes Technical Information System (MAPTIS-II) Development Team of NASA Marshall Space Flight Center - Exceptional contributions to the design and development of a new generation of the MAPTIS-II database that will provide materials information for all NASA flight hardware and programs.

Minotaur IV Launch Vehicle Development Team of the United States Air Force - Successful development and launch of a new medium lift vehicle with near flawless results, giving the nation a new responsive launch capability.

Minotaur IV Launch Vehicle Team of Orbital Sciences Corporation - Succesful development and demonstration of a new low cost and flexible launch configuration of the Minotaur IV launch vehicle.

National Space Biomedical Research Institute (NSBRI) Mars 500 Research Team of University of Pennsylvania School of Medicine - Pioneering new approaches to U.S. and international research collaborations by the NSBRI Mars 500 Research Team, advancing knowledge using unprecedented human space exploration analog studies.

Orion Attitude Control Motor Team of ATK - Outstanding technical excellence in the development of the most complex solid rocket motor ever flown.

Orion Crew Radiation Analysis Team of Lockheed Martin - Outstanding efforts by the Orion Crew Radiation Analysis Team to develop innovative software tools that improve crew safety, reduce vehicle weight and allow for long duration Exo-low-Earth-orbit missions.

2010 Stellar Awards Winners in the Team Category.
L to R: Astronaut Megan McArthur (presenting), Ess, Romero, Oliva, Zimpfer, Patz, Ballard, Hess, and Foreman (presenting). (NASA, 2010)

Team Category Continued

★★★★

2011 RNASA STELLAR AWARD NOMINEES

Orion Launch Abort System Integrated Product Team of Lockheed Martin Space Systems Company - Outstanding teamwork, leadership and technical excellence in the development of the state-of-the-art Orion launch abort system culminating in the flawless Pad Abort 1 flight test.

Orion Launch Abort System Team of Orbital Sciences Corporation - Exceptional dedication and technical excellence resulting in the successful design, development and test of the first full-scale abort system in the United States in more than 45 years.

Orion Pad Abort 1 Flight Test Team of NASA Johnson Space Center - Extraordinary performance in the conduct of the first full-scale integrated flight-test of the next generation crew escape launch abort system.

Orion Pad Abort 1 Guidance, Navigation & Control (GN&C) Team of Lockheed Martin Exploration & Science - Outstanding GN&C efforts in developing high-fidelity modeling and simulation tools, creating a validation process adopted as an Orion project standard, developing test procedures for the Orion launch abort aystem, and supporting hardware testing that helped ensure an immensely successful Pad Abort 1 flight test.

Regenerative Enivronmental Control and Life Support (ECLS) Team of The Boeing Company - Leadership and technical excellence by the Regenerative ECLS Team resulting in the first on-orbit implementation of the fully regenerative ECLS system in the USOS (United States On-Orbit Segment) enabling six-person ISS crew capability necessary for full station utilization.

Russian Vehicle Departure Corridor Analysis Team of ARES Corporation - Team excellence in the emphasis on preservation of service life of ISS critical components.

Sabatier Reaction System Team of Hamilton Sundstrand - Successful delivery and activation on-orbit of the Sabatier system using a unique business model and technology that converts waste gases into water to help sustain NASA's space station crew.

Space Shuttle I-Load Integration Team of The Boeing Company - Outstanding teamwork to ensure consistency in the quality of the Space Shuttle Flight Software including exceptional dedication to the integration of error-free Space Shuttle I-Loads.

Space Shuttle Main Engine (SSME) Operational Simulation Team of Pratt & Whitney Rocketdyne - Innovative and proactive approaches in the SSME operational simulation project to enhance the assessment skills of the flight and test analysis teams with realistic and challenging anomaly scenarios.

Space Shuttle Probabilistic Risk Assessment (SPRA) Team of NASA Johnson Space Center - Outstanding work by the SPRA Team, providing an essential resource for managing Space Shuttle Program risks.

Space Situational Awareness Branch of the United States Air Force - Exceptional contribution to the furthering of national space surveillance capability using state-of-the-art technology.

Spitzer Space Telescope Project Team of NASA Jet Propulsion Laboratory - Outstanding innovation, dedication, and technical excellence by the Spitzer Space Telescope Project Team enabling both engineering and scientific firsts from which the next generation of astrophysics missions will benefit.

X-37B Recovery Team of The Boeing Company - Successful execution of the deorbit, landing and safing of the unmanned autonomous X-37B at Vandenberg Air Force Base on 3 December 2010 by the X-37B Recovery Team.

Kevin P. Chilton

★★★★

2011 NATIONAL SPACE TROPHY WINNER

cont. from page 4

Father, Award Winner

Chilton retired from the Air Force in March 2011. He and his wife Cathy, now a Brigadier General at the Air Force Reserves at the USAF Academy, bought a house in Colorado Springs and "plan to stay there," he said. Chilton intends "to focus on spending more time with family." Two of his four daughters are in high school. One daughter is a freshman at the University of Nebraska, and the oldest is a junior at the Air Force Academy—following in her mother's footsteps by studying physics. "Eventually, I'll find work where my background will contribute," Chilton said. "I like learning new things."

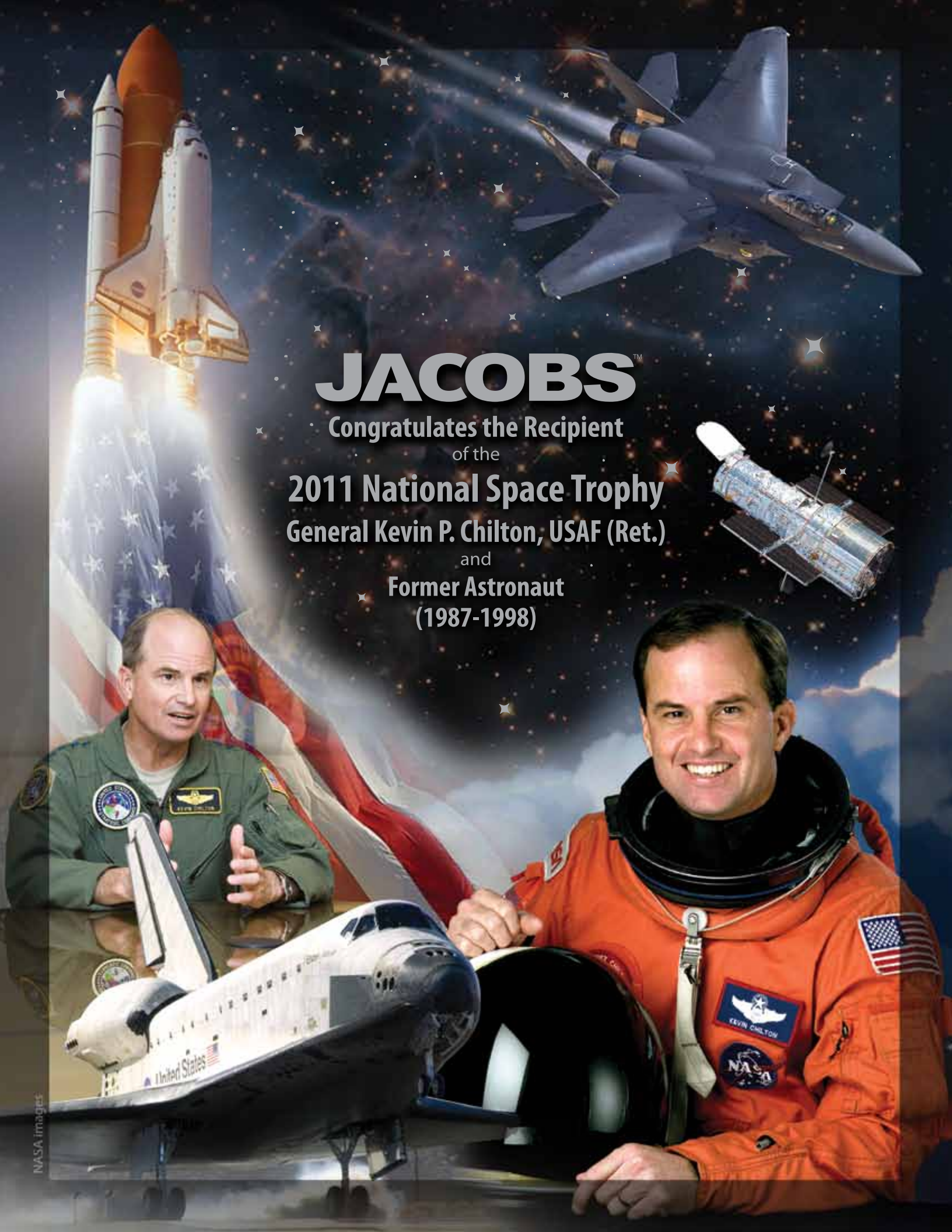
Chilton has been recognized with numerous awards including; the first inductee of the Strategic Order of the Sword and Shield, the Distinguished Service Medal with oak leaf cluster, Defense Superior Service Medal with two oak leaf clusters, Legion of Merit with oak leaf cluster, Distinguished Flying Cross, Defense Meritorious Service Medal, Meritorious Service Medal with oak leaf cluster, Air Force Commendation Medal, three NASA Space Flight Medals, NASA Exceptional Service Medal, NASA Outstanding Leadership Medal, NASA "Top Fox" Flight Safety Award Winner (1991), Guggenheim Fellow, Commander's Trophy, Undergraduate Pilot Training, 1982 Secretary of the Air Force Leadership Award, and 1984 Liethen-Tittle Award for top graduate, USAF Test Pilot School.

The RNASA Foundation is proud to further recognize the outstanding accomplishments of General Chilton with the 2011 National Space Trophy.

Gen. Chilton at Kings Bay
(Photo by Mass Communication Specialist 1st Class(SW) James Kimber, 1-19-11)

Brig. Gen. Cathy Chilton
(USAF photo)

Gen. Chilton visits Minot AFB
(USAF photo by Staff Sgt. Keith Ballard, 11-30-10)


JACOBS™
Congratulates the Recipient
of the
2011 National Space Trophy
General Kevin P. Chilton, USAF (Ret.)
and
Former Astronaut
(1987-1998)
NASA images