2009 ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT


Jacobs is proud to
congratulate
Mike Griffin
Thank you for your
outstanding
leadership of NASA.
Your contributions and
unwavering commitment
to furthering our nation's
exploration of space have
left a legacy that will
not be forgotten.
JACOBS

Michael D. GRIFFIN

2009 National Space Trophy Recipient

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Dr. Michael D. Griffin in 2005 *(NASA)*

The Rotary National Award for Space Achievement (RNASA) Board of Advisors voted to recognize former NASA Administrator Dr. Michael D. Griffin with the 2009 National Space Trophy for his numerous accomplishments in aerospace engineering and management.

Griffin was born in 1949 in Aberdeen, Maryland to Beryl Mullin (1919-) and Richard McCravey Griffin (1923-2007). His father was chief of accounting at the Veteran's Administration in Perry Point, MD, and his mother was a teacher.

Both parents emphasized the importance of education. His father's education was interrupted by WW2. "He influenced my own thinking very powerfully when, in 1961 and at the age of 38, he relocated the family to his home state of Georgia so that he could finish those last two years and get a degree," the younger Griffin said. "He gave up a great job and a lot of current income to do it." His mother "started college at the University of Maryland during the Depression, and had to work and go to school part-time in order to get her degree," Griffin recalled. "It took ten years, but she did it. She was incredibly persistent with anything she attempted, a trait she passed along to me."

A born engineer, Griffin told RNASA that "the first present I remember specifically requesting was an Erector set." He spent his childhood making things. "I made my own bows and arrows by cutting down just the right saplings for the bow, and looking for just the right reeds to make arrows, with feathers harvested from my mother's feather dusters."

The budding engineer's interest in space began with the gift of *A Child's Book of Stars* when he was five. "While we know today that almost everything in this book is wrong," he commented, "it was utterly fascinating to me. I read it over and over, and then sought out other books about astronomy and space. ... I was captivated."

He graduated as salutatorian of Aberdeen High School in 1967 and won a Maryland Senatorial Scholarship to attend Johns Hopkins University (JHU). He obtained his BA in physics in 1971. His first job involved aircraft simulator development with Link Division of Singer Corporation in 1972. In 1974, he joined Computer Science Corporation (CSC) to work in Mission Operations at NASA Goddard Spaceflight Center (GSFC) in Maryland. It was quite demanding. "You could be called in at any hour of the day or night if a spacecraft was in some sort of trouble," he said.

Despite that, Griffin completed a master's degree in aerospace science from Catholic University in 1974. "But I knew that I needed to get a PhD to attain my career goals," he said. So when offered a fellowship by his thesis advisor, Dr. John Anderson, he quit work to attend University

Launch of MESSENGER in 2004
(Photo by Ben Cooper, www.LaunchPhotography.com)

of Maryland full time. He received his PhD in aerospace engineering in 1977.

Griffin then joined the Jet Propulsion Laboratory (JPL) in California to work on Mars rover and sample return programs. He expected to stay at JPL indefinitely, but the Mars work was cancelled.

Continued on next page

Mike and Becky at KSC in 2008 *(NASA)*

At that time, a former professor, Dr. Fred Billig, offered him a job at the JHU Applied Physics Laboratory (APL). So in late 1979, Griffin moved back across the country. He worked at JHU for seven years in hypersonics, on the Hubble Space Telescope (HST), on the Air Force Polar BEAR satellite, the Shuttle Astro-1 payload, and, beginning in 1984, on missile defense for the Strategic Defense Initiative Organization (SDIO). He also taught aerospace engineering at the University of Maryland as an adjunct professor from 1980 to 1986. Griffin said, "Those were very, very good years. The real-world engineering and programmatic experience that I obtained during that period really made my career." He cited an example:

"In January, 1985, I was given the lead technical role on what became the first-ever space-to-space intercept mission of a rocket in powered flight. I was at APL, and SDIO was still a fresh, new organization led by Lt. Gen. James A. Abrahamson, who came to the job following his role as associate administrator for Space Flight at NASA. Abe was looking across the country for new ideas, and in particular those ideas which could be brought to fruition in an experimental flight test very quickly. He liked the concept brought forward by the APL team, and so the project was formally initiated in May, 1985…. We flew the mission in September 1986 – sixteen months later – after the most intensive period of work that I can recall in my career. It was a magnificent success. Our team was able to put "gun camera" footage on the table at the Reagan-Gorbachev summit meeting at Reykjavik Summit in late 1986. It was a convincing demonstration of what we can do in the United States when we are challenged. We had engaged a multi-organization, multi-discipline team from across the country to get it done, and they were an absolutely superb group. I've never worked with a better team. Many of them are friends to this day. Several other terrific SDIO experimental flight test missions followed afterwards, but this first one was about as good as it gets."

He left JHU to join an entrepreneurial startup, American Rocket Company, in California in 1986 and worked on commercial low-cost launch vehicle development. When the company failed, he moved east again in 1987 to work for the SDIO.

Griffin spent five years teaching aerospace engineering at George Washington University in DC and co-authored, with James French, the textbook, Space Vehicle Design, published by the American Institute of Aeronautics and Astronautics (AIAA) in 1991 and in a second edition in 2004.

Griffin in his Tiger *(Photo courtesy Griffin)*

Griffin was NASA Associate Administrator for Exploration from September 1991 to February 1993. He was co-director of the Access to Space Study in 1992, team leader for the 1993 space station redesign, and led NASA efforts to analyze the Mars Observer failure. In 1993, Griffin was named NASA's chief engineer, responsible for review of all NASA programs, including the Hubble repair. Griffin had

Continued on page 32


SCIENTIST.
ENGINEER.
MANAGER.
VISIONARY.
For his enormous contributions to America's Space Program and for his invaluable leadership of NASA during a most challenging time, Boeing is proud to congratulate Michael D. Griffin on receiving the 2009 National Space Trophy.
BOEING

Miles O'BRIEN

2009 Master of Ceremonies

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Miles O'Brien at 2008 banquet *(NASA)*

The RNASA Foundation is pleased to welcome back Miles O'Brien as Master of Ceremonies for this year's banquet. O'Brien is the owner of a private production company that creates, produces and distributes original content across all media platforms. Based in New York, O'Brien has 26 years of broadcasting experience with a passion for aviation, space, and technology.

O'Brien was born in Detroit, Michigan and grew up in Grosse Pointe Farms. He has a history degree from Georgetown and began his broadcasting career in 1982 at WRC-TV in D.C. He was a general assignment reporter and anchor at TV stations in Boston, Tampa, Albany, N.Y., and St. Joseph, Mo. O'Brien joined CNN in 1992 as anchor and correspondent for CNN's Science Unit, 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 a myriad of 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 live reports from the Gulf Coast in the aftermath of Hurricane Katrina in 2005 helped to earn CNN a Peabody award. He left CNN in December 2008.

O'Brien has covered all aspects of human and unmanned spaceflight for the past seventeen years. He reported on the 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.

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 aftermath and subsequent 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 four years.

Not surprisingly, O'Brien has reported extensively on civil aviation issues and crash investigations, including those of US Air 427, TWA 800, Egyptair 990, American 587, and the accidents that took the lives of John F. Kennedy, Jr., Payne Stewart, and Senator Paul Wellstone. In the wake of the 2001 terrorist attacks, O'Brien used his flight experience to provide simulated walk-through coverage of the hijacked flights. He also anchored much of CNN's coverage of the war in Iraq and Afghanistan, explaining the intricacies of military aviation techniques and strategy.

O'Brien has been recognized with numerous awards, including the 2002 RNASA Space Communicator Award. O'Brien, his wife Sandy, and their two children reside in New York City.

O'Brien covers STS-118, 2007
(Photo by Jonathan Schur)

ATK Congratulates

Dr. Michael Griffin

Innovator, Leader, Visionary

and recipient of the 2009 National Space Trophy

for excellence in the advancement of America's Space Goals

ATK also congratulates the Stellar Award winners and nominees for their contributions to space exploration.

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Michael L. COATS

2009 National Space Trophy Presenter

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Michael L. Coats *(NASA)*

RNASA Advisor and Johnson Space Center Director Michael L. Coats, along with Capt. Reightler, nominated and is presenting the National Space Trophy to Dr. Griffin.

Born in Sacramento, CA in 1946, Coats considers Riverside, CA his hometown. He received a BS from the U.S. Naval Academy in 1968 and became a Naval Aviator in 1969.

Coats was assigned to Attack Squadron 192 in 1970 aboard the USS Kitty Hawk. By September 1972, he'd flown 315 combat missions in Southeast Asia. From 1972-73, he served as a flight instructor with the A-7E Readiness Training Squadron at Naval Air Station, Lemoore, CA. He then attended the U.S. Naval Test Pilot School at Patuxent River, MD until 1974. Coats was project officer and test pilot for the A-7 and A-4 at the Strike Aircraft Test Directorate.

He returned to the U.S. Naval Test Pilot School as an instructor in 1976. He earned a master's in administration of science and technology from George Washington University in 1977. Starting in June 1977, he attended the U.S. Naval Postgraduate School at Monterey, CA, earning a master's in aeronautical engineering in 1979. He had logged more than 5,000 hours in 28 different types of aircraft, and more than 400 carrier landings when he was selected as an astronaut in 1978.

Coats was the pilot of the maiden flight of Discovery in 1984. STS 41-D included a solar wing experiment, deployment of three satellites, an electrophoresis experiment, and an IMAX movie. The crew earned the name "Icebusters" for removing ice from the orbiter using the robotic arm. After six days in space, STS 41-D landed at Edwards Air Force Base (AFB), CA.

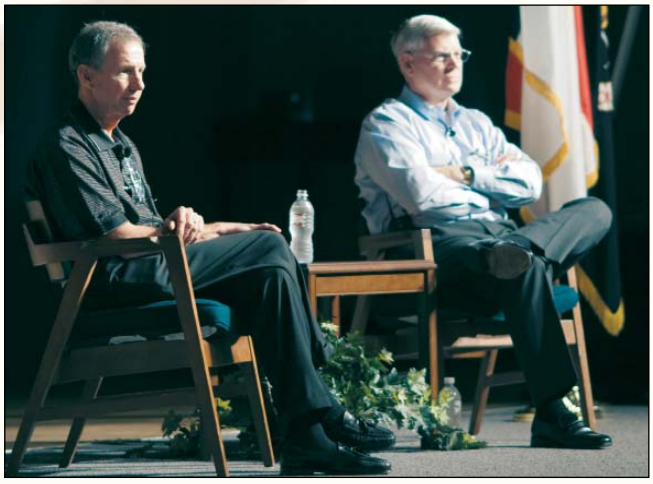
Coats was selected as commander for STS 61-H which was canceled after the Challenger accident. He then commanded STS-29 in March 1989. This five-day flight of Discovery deployed a Tracking and Data Relay Satellite, performed numerous experiments, and created IMAX movies. STS-29 also landed at Edwards AFB. Afterwards, Coats served as acting chief of the Astronaut Office.

Coats' third flight was STS-39, an unclassified eight-day DoD mission that launched in April 1991. The crew deployed, operated and retrieved the SPAS-II spacecraft, in addition to conducting science experiments around the clock. After Discovery landed at Kennedy Space Center, Coats had logged more than 463 hours in space.

In 1991, Coats retired from the U.S. Navy and NASA to became vice president of Avionics and Communications Operations for Loral Space Information Systems. From 1996-98, he was vice president of Civil Space Programs for Lockheed Martin Missiles and Space in Sunnyvale, CA. From 1998-2005, he was vice president of Advanced Space Transportation for Lockheed Martin Space Systems Company in Denver, CO. Coats returned to NASA in November 2005 to serve as the 10th director of JSC.

Coats has been recognized with numerous awards including election as a Fellow of the American Institute of Aeronautics and Astronautics in 2008; induction into the Astronaut Hall of Fame in 2007; and the FAI Gold Space Medal in 2006.

Coats and the former Diane Eileen Carson of Oklahoma City have a daughter and a son, and adorable, identical twin granddaughters.



Griffin and Coats in January 2009 *(NASA)*

Kenneth S. REIGHTLER, Jr.

2009 National Space Trophy Presenter

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Kenneth S. Reightler, Jr.
(Lockheed Martin photo)

RNASA Advisor and former astronaut Capt. Ken. Reightler, Jr. nominated Dr. Griffin and, along with Capt. Coats, is presenting the National Space Trophy to Dr. Griffin. Reightler said, "Mike Griffin is one of those rare individuals who is not afraid to tackle even the most difficult engineering and management issues, such as those NASA has faced while implementing the U.S. Space Exploration Policy and during the return-to-flight activities after the Columbia accident."

Ken Reightler is currently Vice President, NASA Program Integration for the Lockheed Martin Space Systems Company in Greenbelt, MD. He is responsible for integrating all current and future NASA programs the company supports from an organizational and technological perspective.

Reightler was born in Patuxent River, MD in 1951, but considers Virginia Beach his hometown. He earned his BS degree in aerospace engineering with Distinction from the U.S. Naval Academy in1973 and became a naval aviator in 1974.

After pilot training in the P-3C, he reported to Patrol Squadron Sixteen in Jacksonville, FL, serving as a mission commander and patrol plane commander. He was deployed to Keflavik, Iceland, and Sigonella, Sicily. Reightler then attended the U.S. Naval Test Pilot School at Patuxent River, graduating with distinction in 1978. He remained at the Naval Air Test Center as test pilot and project officer for a variety of flight test programs involving the P-3, S-3, and T-39. He returned to the Test Pilot School as a flight test instructor and safety officer flying the P-3, T-2, OV-1, T-39, and TA-7.

In June 1981, Reightler was assigned to the USS Dwight D. Eisenhower (CVN-69) as a department head and served two deployments to the Mediterranean Sea. He then attended the Naval Postgraduate School in Monterey, CA where he earned a master's degree in 1984. He also earned a master's in systems management from the University of Southern California that year.

Reightler joined the Strike Fighter Squadron 125 at Naval Air Station Lemoore, CA for transition training in the F/A-18. He served as chief flight instructor at the U.S. Naval Test Pilot School from March 1985 until selection as an astronaut in June 1987.

Reightler was the pilot of STS-48 in September 1991 that deployed the Upper Atmosphere Research satellite. He flew a second time on Discovery as the pilot of STS-60, the first joint U.S./Russian Space Shuttle mission in February 1994. STS-60 was the first flight of the Wake Shield Facility and the second flight of Spacehab. After this flight, Reightler had logged more than 327 hours in space.

While at NASA, he also held various technical and management positions, including chief of the Astronaut Office Space Station Branch. Reightler has been awarded with the Defense Superior Service Medal, the Legion of Merit, the Defense Meritorious Service Medal, the Navy Commendation Medal, the NASA Exceptional Service Medal, two NASA Space Flight Medals, and elected to the Virginia Aviation Hall of Fame.

Retiring from the Navy with the rank of captain (O-6), Reightler left NASA in 1995. By then he had logged more than 5,000 hours in more than 60 different types of aircraft. He joined Lockheed Martin in Houston as program manager of the Engineering Test and Analysis contract. He became vice president of the Science, Engineering and Test Operation in 1996. In 2001, he assumed the position of senior vice president, Lockheed Martin Space Operations in Greenbelt, MD, and he was promoted to president in 2004. He transferred to the Space Systems Company in 2007.

Married to the former Maureen Ellen McHenry of Virginia Beach, Reightler has two grown children. He enjoys sailing, kayaking, and playing electric guitar.

Reightler during STS-60, February 1994 *(NASA)*

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NASA Administrator

for his many outstanding achievements and years of service to his country

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Sunita WILLIAMS

2009 Stellar Award Presenter

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Sunita Williams at RNASA banquet, 2008 *(NASA)*

The RNASA Foundation welcomes back astronaut and newly promoted Navy Captain Sunita (Suni) L. Williams as a Stellar Award presenter. Williams set a new world record of 195 days in space by a woman during her stay on the International Space Station (ISS) that ended in June 2007.

Of Indian descent, Williams was born in Euclid, Ohio in 1965, but considers Needham, MA her hometown. She earned her BS in physical science from the U.S. Naval Academy and was commissioned as an ensign in 1987.

After an assignment at the Naval Coastal System Command, she received her designation as a basic diving officer and reported to Naval Aviation Training Command. She became a naval aviator in July 1989, reporting to Helicopter Combat Support Squadron 3 for H46 Seaknight training. She was then assigned to Helicopter Combat Support Squadron 8 in Norfolk, Virginia. She made overseas deployments to the Mediterranean, Red Sea and the Persian Gulf in support of Desert Shield and Operation Provide Comfort.

In 1992, Williams became the officer-in-charge of an H-46 detachment onboard USS Sylvania sent to Miami, Florida for hurricane Andrew relief. She graduated from Naval Test Pilot in 1993, and joined the Rotary Wing Aircraft Test Directorate as an H-46 project officer, and V-22 chase pilot in the T-2. While there, she was also assigned as the squadron safety officer and flew test flights in the SH-60B/F, UH-1, AH-1W, SH-2, VH-3, H-46, CH-53 and the H-57.

Williams earned her master's in engineering management from the Florida Institute of Technology in 1995. She then returned to the Naval Test Pilot School as an instructor in the Rotary Wing Department and as the school's safety officer. She flew the UH-60, OH-6 and the OH-58. Her next assignment was as aircraft handler and assistant air boss on the USS Saipan (LHA-2) based in Norfolk, VA. With more than 2,770 hours in more than 30 different aircraft, she was selected for the astronaut program in 1998.

Her first assignment was with the ISS first expedition crew in Moscow. Following their return from space in 2001, Williams worked on the ISS robotic arm.

She served as a NEEMO2 crewmember, living underwater in the Aquarius habitat off the coast of Florida for nine days in May 2002. This was great experience for her record-breaking stay in space. Launched on STS-116 in December 2006, Williams joined the Expedition 14 crew onboard the International Space Station. She completed three spacewalks in 2007, setting a new record for spacewalk time by a woman that stood until December 2008.

In April of 2007, Williams made history by completing the Boston marathon via the space station's treadmill. Because hail damage delayed her return on STS-117, she surpassed Shannon Lucid's duration record set back in 1996. Upon landing in June 2007, she had spent 194 days, 18 hours and 58 minutes in space.

Williams currently serves as Deputy Chief of the Astronaut Office where she shares responsibility for the overall mission preparation activities of all Space Shuttle and ISS crews and support personnel.

Williams is a member of the Society of Experimental Test Pilots, the Society of Flight Test Engineers, and the American Helicopter Association. Her awards include two Navy Commendation Medals, a Navy and Marine Corps Achievement Medal, a Humanitarian Service Medal, and the NASA Distinguished Medal.

Married to Michael J. Williams, she enjoys running, swimming, biking, triathlons, windsurfing, snowboarding and bow hunting. A crazy Jack Russell Terrier named Gorby adds his share of excitement to her life.

Williams takes a walk in space, Feb. 2007 *(NASA)*

Congratulations to former NASA Administrator Michael Griffin 2009 National Space Trophy Winner

With decades of experience leading the integration of life science and engineering for health and human performance for NASA, Wyle is growing and diversifying. It is offering more services at Johnson Space Center as well as expanding the company's role at NASA Marshall Space Flight Center in Huntsville, Ala., NASA Glenn Research Center in Cleveland, Ohio, and beyond.

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Leland MELVIN

2009 Stellar Award Presenter

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Leland Melvin at RNASA banquet, 2008 *(NASA)*

The RNASA Foundation is pleased to welcome back astronaut Leland Melvin as a Stellar Award presenter. Melvin flew on STS-122 in February 2008, and he is currently assigned as a mission specialist on the STS-129 targeted for launch this October.

Originally from Lynchburg, Virginia, Melvin graduated from Heritage High School in Lynchburg in 1982. He received a bachelor of science in chemistry from the University of Richmond in Richmond, Virginia in 1986, and was chosen by the Detroit Lions in the 11th round of the 1986 NFL college draft. He participated in the Toronto Argonauts and Dallas Cowboys football training camps.

Melvin began his NASA career in the Fiber Optic Sensors Group of the Nondestructive Evaluation Sciences Branch at NASA Langley Research Center in 1989. He conducted research on advanced instrumentation for nondestructive evaluation (NDE) while earning a master's degree in materials science engineering from the University of Virginia (awarded 1991). His research included using optical fiber sensors to measure strain, temperature, and chemical damage in both composite and metallic structures.

In 1994, Melvin was selected to lead the Vehicle Health Monitoring team for the cooperative Lockheed/NASA X-33 Reusable Launch Vehicle Program. The team developed distributed fiber optic strain, temperature and hydrogen sensors to reduce operational costs and to monitor composite liquid oxygen tank and cryogenic insulation performance. Two years later, Melvin co-designed and monitored construction of an optical NDE facility capable of producing in-line fiber optic Bragg grating strain sensors at rates in excess of 1,000 per hour. This facility will provide a way to perform advanced sensor and laser research for development of aerospace and civilian health-monitoring systems.

After selection in 1998, Melvin served in the Astronaut Office Space Station Operations Branch, the Education Department at NASA Headquarters, Washington, D.C, and the Robotics Branch of the Astronaut Office. As co-manager of NASA's Educator Astronaut Program, Melvin traveled across the country, inspiring thousands of students to pursue careers in science, technology, engineering and math.

The STS-122 flight of Atlantis in February 2008 was Melvin's first. A highlight of the 24th mission to the International Space Station was the delivery and installation of the European Space Agency's Columbus module. As a robotic arm operator, Melvin supported the three spacewalks required to prepare Columbus for operation, and to replace a used nitrogen tank on the station's truss. The former football player also celebrated his 44th birthday while in space. At the end of this mission, Melvin had logged 12 days, 18 hours, 21 minutes and 40 seconds in space.

STS-129 is next up for Melvin. Planned for October, 2009, it will deliver two Express Logistics Carriers to the International Space Station and feature four spacewalks. STS-129 will also bring Canadian astronaut Robert Thirsk home after a tour of duty on the ISS.

Melvin is a member of National Technical Association (Hampton Roads Chapter), American Chemical Society, and the Society for Experimental Mechanics. His awards include the Invention Disclosure Award for Lead Insensitive Fiber Optic Phase Locked Loop Sensor; eight NASA Outstanding Performance Awards; two NASA Superior Accomplishment Awards; the NASA Space Flight Medal; the Key to the City of Lynchburg, Virginia; the title of NCAA Division I Academic All American; and induction into the University of Richmond's Athletic Hall of Fame.

Surprisingly single, the former football player enjoys walking his dogs (Jake and Scout), photography, piano, reading, music, cycling, tennis and snowboarding.

Melvin prepares for STS-122 in 2008 *(NASA)*

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2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

RNASA Committee

Front Row (L to R): Shelia Self, Ann Charles, Jennifer Mitchell, Mary Alys Cherry, L. Jean Walker (Secretary), Marianne Dyson.
Middle Row (L to R): Floyd Bennett, Frank Perez, Bill Geissler, Bill Taylor (Vice Chairman), Jack Lister, Bob Wren, Jayant Ramakrishnan, Duane Ross.
Back Row (L to R): S. John Wilkins III, Gary Johnson, Rodolfo Gonzalez (Chairman), Marcus Havican, Steven Fredrickson, Richard Jackson, Geoff Atwater (Treasurer).
Not Pictured: Shelley Baccus, Jeffrey Carr, Branelle Cibuzar, Susan Gomez, David Hamblin, Mike Hernandez, Tim Kropp, Kim Nahas, Dan Weber.
(Photo by J. Pamela Photography, Inc.)

The Rotary National Award for Space Achievement (RNASA) was founded to recognize the people whose work in the field of space exploration has lasting impact and benefits. Established twenty-three years ago by the Space Center Rotary Club, RNASA carries out its goal through an annual awards gala.

The top award is the National Space Trophy being presented to Dr. Mike Griffin this year. Outstanding individuals (see pages 18-19 for previous winners) are first nominated by government, industry, and professional organizations. The winner is then selected by a vote of RNASA's Board of Advisors (page 34) that includes current and former NASA center directors, presidents of aerospace corporations, space journalists, and previous award recipients. The confidential votes are tabulated by an independent accounting firm.

To recognize the "unsung heroes" of the space program, Stellar Awards for individual and team achievements are solicited from NASA, the military, and industry leaders in human and unmanned spaceflight programs. The awards are divided into four categories: Early-career, Mid-career, Late-career, and Teams. Nominations (pages 22-31) are reviewed by a distinguished panel (page 20-21) who select the winners based on which accomplishments hold the greatest promise for furthering future successes in space. Former NASA Associate Administrator for Space Systems Development, Arnold D. Aldrich, and former NASA Flight Directors and National Space Trophy winners Dr. Christopher C. Kraft, Jr. and Dr. Glynn S. Lunney served on the 2009 panel.

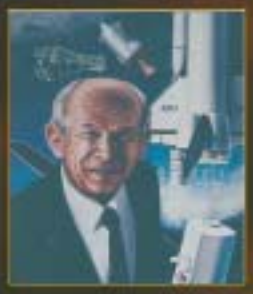
RNASA is a nonprofit organization that depends on corporate sponsorships to create an event that has been called the "Academy Awards for Space Acheivement." Excess funds remaining after event production expenses are donated to space-related educational programs. Past recipients of donations include Purdue, the Wings of the Eagle Foundation, and Parks College of Engineering at St. Louis University. In 2008, a donation was made to help establish the National Flight Academy adjacent to the National Museum of Naval Aviation in Pensacola, FL.

Another donation was made to support the Texas High School Aerospace Scholars (HAS) program. Through this program, students complete on-line lessons and then spend a week at JSC where they are briefed by engineers, scientists, and astronauts; and compete in building rovers, rockets, and landers. In 2008, HAS held sessions for 360 high-school juniors.

RNASA is grateful for the enthusiasm and support it has received from the aerospace industry, educational organizations, NASA, and the Department of Defense. This support assures the continued recognition of outstanding achievements by United States citizens in the area of space exploration and support of today's students who will become our future space explorers.

NATIONAL SPACE TROPHY WINNERS

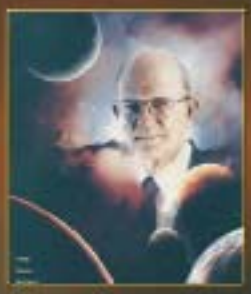
1987-2008



1987
Dr. Maxime Faget

1988
Hon. Don Fuqua

1989
V. Adm. Richard Truly, USN (Ret.)



1990
Dr. Lew Allen

1991
Dr. Aaron Cohen

23rd Annual RNASA Banquet

6:00

RECEPTION

Victoria Reva, pianist

7:00

WELCOME

Rodolfo Gonzalez, Chairman, RNASA

Ed Emmett, Harris County Judge

PRESENTATION OF THE COLORS

Clear Lake High School Army JROTC Color Guard

NATIONAL ANTHEM

Kelly Williams, soloist

INVOCATION

Greg Finke, Senior Pastor, Gloria Dei Lutheran Church

DINNER

8:15

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PRESENTATION OF STELLAR AWARDS

Sunita Williams, Commander, USN, NASA Astronaut

Leland Melvin, NASA Astronaut

PRESENTATION OF NATIONAL SPACE TROPHY

Capt. Michael L. Coats, Director, Johnson Space Center

Capt. Kenneth S. Reightler, Jr., Vice Pres. Lockheed Martin Space Systems Co.

PRESENTATION OF THE OMEGA WATCH

Lt. Gen. Thomas Stafford, USAF (Ret.)

RECOGNITION OF SPONSORS AND CLOSING

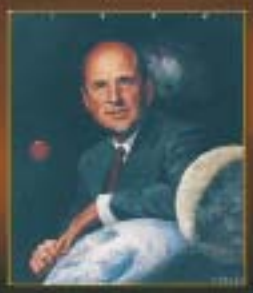
1998
President George H.W. Bush

1999
Dr. Christopher C. Kraft, Jr.

2000
Capt. John W. Young, USN (Ret.)

2001
Tommy Holloway

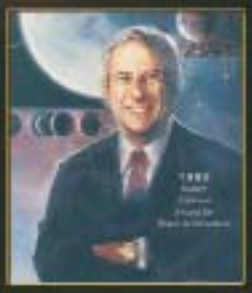
2002
Dr. George E. Mueller



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

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The Boeing Company
Booz Allen Hamilton
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GeoControl Systems
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Honeywell
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L-3 Communications
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STELLAR AWARD TROPHIES

ATK Launch Systems

STELLAR AWARDS EVALUATORS

Arnold D. Aldrich
Dr. Christopher C. Kraft, Jr.
Dr. Glynn S. Lunney

SPECIAL THANKS

Col. Gerald P. Carr, USMC (Ret.)
Jeffrey Carr
Craig Insurance
David Hamblin, CPA
Hyatt Regency Houston
MRI Technologies
NASA Johnson Space Center
United Space Alliance

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Multimedia Production, Space City Films

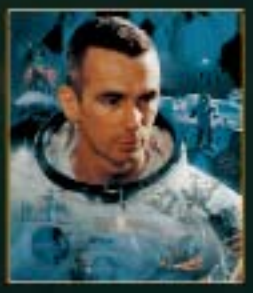
2003
Roy S. Estess

2004
Neil A. Armstrong

2005
Dr. Glynn S. Lunney

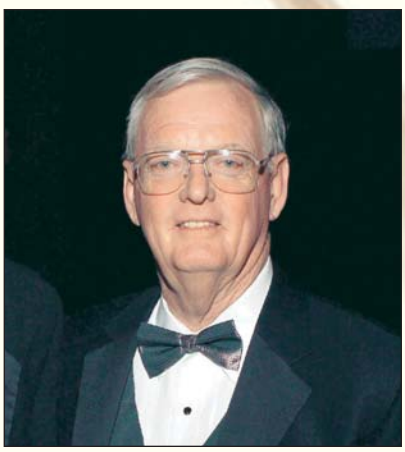
2006
Col. Eileen Collins, USAF (Ret.)

2007
Eugene F. "Gene" Kranz



2008
Capt. Eugene A. Cernan, USN (Ret.)

Christopher C. Kraft, Jr. *(NASA)*



Glynn S. Lunney *(NASA)*

Christopher C. Kraft, a driving force in the U.S. human spaceflight program from its beginning to the Space Shuttle era, has served as RNASA Stellar Award evaluator since 1997.

Kraft graduated from Virginia Polytechnic in 1944. He joined NASA's predecessor at Langley Field in Virginia the next year 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 was director of Flight Operations through Apollo 12, and then became deputy director of what is now Johnson Space Center. He became director in 1971, playing 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 Virginia Polytechnic Institute and State University.

His book, *FLIGHT: My Life In Mission Control*, was published in 2001 and was a New York Times bestseller.

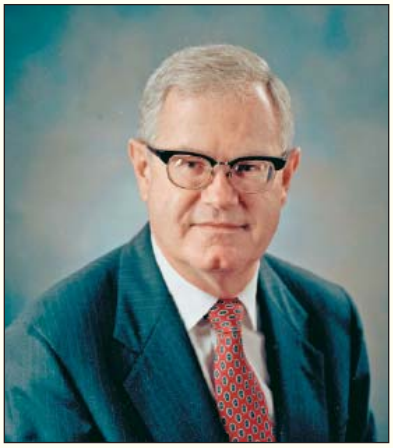
Kraft has received numerous awards, including the 1999 National Space Trophy.

Former Apollo flight director and Shuttle manager Glynn S. Lunney has served as a RNASA Stellar Award evaluator since 2003.

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.

From 1975-81, Lunney served at NASA Headquarters, twice as deputy associate administrator (AA) for Space Flight, and then as acting AA for Space Transportation Operations. In 1981, he was selected manager of the Shuttle program and returned to Houston.

Lunney left NASA in 1985 and became president of Rockwell's Satellite Systems Division. 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. He was honored with the National Space Trophy in 2005.



Arnold D. Aldrich *(NASA)*

A 35-year NASA veteran, Arnold Aldrich joined the RNASA Stellar Award Evaluation Committee in 2008.

After graduation from Northeastern University in 1959, Aldrich joined the Space Task Group at Langley Field. 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, where he oversaw the development of 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 Space Shuttle program recovery. He then served as associate administrator (AA) for Aeronautics and Space Technology and, later, AA for Space Systems Development.

Aldrich left NASA in 1994 and joined Lockheed Missiles and Space Company in Sunnyvale, CA as 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, MD. He retired from Lockheed Martin in 2007 and is now an aerospace consulatant. Aldrich has been honored with the Presidential Rank of Distinguished Executive and the NASA Distinguished Service Medal.

Jamie Barney of ATK Launch Systems - Extraordinary personal dedication and technical accomplishments instrumental in ensuring customer and production requirements and expectations are met on the new Booster Separation Motor program.

Jose L. Barreda of Jacobs Technology, Inc. - Outstanding achievement as manager of the Potable Water Dispenser project for the International Space Station(ISS) program.

Scott C. Bird of The Boeing Company - Outstanding contributions to the development and execution of the shuttle debris analysis processes and procedures.

1st Lt. David E. Drake of the USAF, 30th Launch Support Squadron - Outstanding leadership as Satellite Mission manager for the experimental Space Based Space Surveillance satellite launch, responsible for integrating all processing actions.

Griffin's advice to Stellar Award nominees: "Do what you love, and you'll never work a day in your life."

Anthony R. Frego of ATK Launch Systems - Outstanding ability to assess postflight hardware conditions and to evaluate, analyze and resolve hardware issues to ensure human spaceflight safety.

Elliot P. Harik of The Boeing Company - Exceptional contributions, leadership and technical prowess in support of solar array rotary joint anomaly resolution for the ISS).

Timothy Hinerman of Pratt & Whitney Rocketdyne - Outstanding leadership in developing combustion stability analysis tools and applying them successfully to J-2X engine and attitude control thruster analysis.

Christopher J. Johnson of NASA Johnson Space Center (JSC)- Outstanding leadership and technical expertise leading to space technology advances in the areas of the Orion landing and recovery system, space habitat inflatables, and Space Shuttle impact detection.

Dr. Benjamin S. Kirk of NASA JSC- Outstanding technical contributions in determination of accurate aerothermal environments for safe operation of the Space Shuttle orbiter and development of the Orion spacecraft.

Capt. Garrett W. Knowlan of the USAF - Exceptional contributions to space-based global navigation leading to a common global positioning system (GPS)-Galileo signal for civilian use between the United States and Europe, the next generation GPS civil signal design for an expected 1 billion users, and a 25 percent increase in GPS military signal power to the warfighter.

Jonathan Lenius of NASA JSC - Outstanding contributions to the design of Altair, the next generation human lunar lander.

Eduardo A. Lopez of The Boeing Company - Dedicated leadership in implementing innovative ideas to improve Space Shuttle integrated propulsion propellant reconstruction, data analysis and anomaly resolution methods that advance technical product quality and safety of flight.

Timothy M. Miller of MEI Technologies, Inc. - Outstanding contributions to far-infrared ground-based astronomy through development, fabrication, and assembly of a novel infrared detector, and technology development of highly sensitive large-format arrays for future observing missions.

Jose A. Moreira of Booz Allen Hamilton - Outstanding technical excellence and leadership in the development and coordination of H-II Transfer Vehicle Proximity Operations Timelines for ISS program integration.

Charisse Pua of Pratt & Whitney Rocketdyne - Outstanding leadership and creativity in resolving the Space Shuttle main engine powerhead missed-penetrant inspection issue.

Travis B. Ripps of United Space Alliance - Exceptional diligence, dedication to safety, pro-activeness and attention to detail resulting in enhanced safety of the Space Shuttle crew and vehicle.

1st Lt. Annette O. Rivas of the USAF - Exceptional contributions to the future of small space lift-and-target vehicle development in support of the Defense Advanced Research Project Agency, the Space and Missile Systems Center,

Continued on next page

and the Missile Defense Agency national defense missions through assurance, software development and hardware test and evaluation.

Alvaro C. Rodriguez of NASA JSC - Technical excellence, leadership and dedication to the Space Shuttle program in the area of leading edge structural subsystem engineering and operations.

Zebulon L. Scoville of NASA JSC - Superior technical contributions and leadership in the area of extravehicular activity (EVA) during the most dynamic period in EVA history.

Jennifer L. Stothers of Pratt & Whitney Rocketdyne - Outstanding leadership and dedication in the design and development of the J-2X pneumatic control assembly.

Stellar Award Trophy
Winners receive a high-quality marble trophy such as the one shown here.

Mary H. Trenolone of Lockheed Martin - Exceptional leadership and technical excellence in the execution of critical test, verification and flight integration products that ensured safety of flight and mission success for Space Shuttle, NASA-Mir and ISS programs.

Lt. Brooks R Turnquist of the USAF - Outstanding contributions to national ballistic missile defense efforts developing operationally responsive space concepts and programs supporting the local community.

Kenneth N. Utley of The Boeing Company - Exemplary discharge of responsibilities related to aging orbiter wiring infrastructure, ensuring its ability to support the Space Shuttle manifest safely.

Michael J. VanWoerkom of Lockheed Martin - Outstanding contributions to the design and development of the NASA Orion crew module that have been invaluable to the progress of the project.

Capt. Bai L Zhu of the USAF - Outstanding contributions as an evolved expendable launch vehicles responsible engineer, leading mission assurance and anomaly resolution efforts to restore the United States' heavy launch capability and to drive process and safety improvements.

2008 Early Career Category Stellar Award Winners

L to R: Astronaut Leland Melvin (presenting), Jessica A. Stuart, Paul Albert Parker, 1st Lt. Anna E. Gunn-Golkin, Thomas N. Martin III, Maj. David J. Laird, and Astronaut Sunni Williams (presenting).
(NASA)

Robert D. Adams of The Boeing Company - Exceptional contributions as an ISS mission evaluation room (MER) manager, and outstanding anomaly identification and technical leadership of the ISS MER Anomaly Resolution team investigation of the ISS starboard solar array rotary joint

Macresia L. Alibaruho of NASA JSC - Outstanding leadership of the JSC Expedition Vehicle Division's Improved Certification Enterprise and contributions to ISS assembly and operations.

Patrick Arellano of Pratt & Whitney Rocketdyne - Outstanding support to resolve higher order surge and rotating cavitation concerns on the Space Shuttle main engine low pressure fuel turbopump.

Stefany Bartz of ARES Corporation - Instrumental leadership and technical contributions to the success of the ISS Web Rearchitecture project by engaging all program organizations and ensuring requirements satisfaction during upgrade of content management processes.

James M. Berreth of The Boeing Company - Outstanding leadership of the design, development and successful operation of the station-shuttle power transfer system, supporting extended duration Shuttle missions to ISS.

Joseph V. Bomba of Lockheed Martin - Outstanding integration and coordination of Orion's multiple-organization launch abort system integrated product team.

Mark L. Bright of Pratt & Whitney Rocketdyne - Outstanding leadership and technical excellence in welding and brazing development for liquid rocket engine programs.

Joseph Chavez of the USAF, Air Force Research Laboratory - Exceptional leadership, management, and technical expertise provided during more than 25 years of service to space satellite systems.

Kevin Creason of ARES Corporation - Outstanding individual initiative to independently develop and test a custom application for migrating ISS users and applications to the new agency NASA account management system, ensuring uninterrupted access to ISS applications and Web sites.

Gloria G. Cybulski of Tech Trans International - Exceptional expertise and personal dedication in all facets of international operations essential to NASA's success in operating the ISS.

Joseph B. Eggert of The Boeing Company - Exceptional leadership in championing the use of Critical Change Project Management method to enhance the development of space-related projects.

Dr. Jennifer A. Fogarty of NASA JSC - Exemplary performance in the formation of the health and medical technical authority at NASA JSC including development of standards, a risk management process, and mitigation strategies for top program risks in all three NASA programs.

Lt. Col. Charles Galbreath of the USAF - Exceptional leadership in bringing revolutionary new space capabilities into operational status and paving the way for future programs and initiatives.

Kerry A. George of Wyle - Exceptional contributions to the study of radiation biodosimetry and radiation biophysics conducted for human spaceflight at the JSC

Barry G. Goldstein of NASA Jet Propulsion Laboratory - Outstanding contributions as the Phoenix Project manager, leading to the successful Mars landing followed by unprecedented scientific findings from the North Polar Region of Mars.

Warren C. Grant of ARES Corporation - Outstanding leadership in developing the ISS Probabilistic Risk Assessment model for the ISS 15A configuration which provides an excellent basis for the completion of future trade studies and risk -nformed decision making by the ISS program.

Sheri G. Gray of Lockheed Martin - Outstanding effort associated with Hurricane Ike Mission Control Center preparation, handover of ISS operations to the Backup Control Center at Marshall Space Flight Center and recovery back to JSC after the hurricane.

Nancy R. Hall of NASA Glenn Research Center - Exceptional leadership and technical excellence in conducting both exploration and fundamental science, performing reduced gravity research and development, and mentoring future scientists and engineers.

Teri L. Hamlin of NASA JSC - Successful technical leadership of Shuttle program probabilistic risk assessments and identifying and implementing significant improvements to safety and mission assurance products, and to services and processes for the Space Shuttle program's risk-informed decision-making process.

John P Hansen of Pratt & Whitney Rocketdyne - Outstanding leadership, technical accomplishment and dedication to mission assurance in support of the RD-180 Program.

Mark D. Horn of Pratt & Whitney Rocketdyne - Outstanding technical leadership and insight in developing the next generation processes and technologies for combustion devices rocket engine components.

M. Brent Hughes of Lockheed Martin - Outstanding contributions to the nation's human space flight program as the Orion Electrical Power System Subsystem Product Team manager leading the development, test and delivery of the power distribution unit for use in the Pad Abort-1 Test Vehicle, the first Orion flight test.

Waldemar J. Janowski of Pratt & Whitney Rocketdyne - Exceptional leadership and technical excellence in enabling safe flight for the Space Shuttle main engine and RS-68 engine, and in developing engines for the X-33 and the Ares family of launch vehicles.

Paul W. Karner of ATK Launch Systems - Outstanding leadership and achievement in the development of the Ares I first stage electrical and avionics subsystem.

Dr. James Keeney of the USAF, Air Force Research Laboratory - Outstanding leadership, management, and technical expertise provided to the Department of Defense during more than 25 years of service to space satellite systems.

Albert Y Kwan of The Boeing Company - Outstanding leadership and technical excellence in providing Structural/ Mechanical Design Cargo Integration Mission Support for the ISS program.

Daniel D. Linder of NASA JSC - Outstanding leadership in evolving the Mission Operations Directorate's Facility Division for multi-program support of Shuttle, ISS and Constellation programs.

Dwight E. "Chip" Link, Jr. of The Boeing Company - Outstanding sustained contributions in fluid system and life support system design and integration for the ISS program.

Edward J. Mango of NASA Kennedy Space Center - Exceptional leadership, dedication, and technical expertise in understanding and resolving the Engine Cutoff Sensor anomaly and enabling the Space Shuttle program to continue its mission to safely complete ISS assembly.

Terrell A. McClain of The Boeing Company - Lifelong dedication to the design of the backup flight system, and personal commitment to astronaut safety during all Space Shuttle missions.

Shelley M. Mendoza of United Space Alliance - Exceptional contributions to United Space Alliance and the NASA Space Shuttle program through outstanding leadership and technical contributions across a broad spectrum of activities within Safety, Quality, & Mission Assurance and throughout the company.

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2008 Middle-Career Category Stellar Award Winners

L to R: Astronaut Sunni Williams (presenting), Robert R. Romanofsky, Jeffrey P. Pilet, Jeffry S. Welsh, Mark El. Mulqueen, Dale B. Nielsen, and Astronaut Leland Melvin (presenting).
(NASA)

Continued from previous page

Scott D. Mildenhall of ATK Launch Systems - Extensive knowledge, tenacity and work ethic in the development and testing of insulation materials to ensure the continued viability of the human space flight program.

Randall C. Moore of NASA JSC - Successful development, design and certification of the next generation digital camera and the digital external tank thermal projection system camera and flash system used in the detection of external tank damage on the Space Shuttle.

Thu-Phong M. Nguyen of Lockheed Martin - Outstanding technical expertise in information technology applied to production of the Space Shuttle external tank and other NASA studies and programs.

Dr. Nigel J. Packham of NASA JSC - Outstanding leadership and contributions to the mission success and safety of NASA's human space flight programs.

John E. Raines of Hamilton Sundstrand - Exceptional dedication and leadership in the management of EVAoperations, improving the efficiency and productivity of real time EVA support.

Dr. Lawrence M. "Robbie" Robertson of the USAF, Air Force Research Laboratory - Outstanding achievements improving the capabilities and cost effectiveness of spacecraft through the development of guidance, navigation, control and autonomy technologies.

Robert A. Rossato of Hamilton Sundstrand - Outstanding support to NASA human spaceflight through sound technical judgment and uncompromising commitment to safety and mission success in the area of the extravehicular mobility unit high pressure oxygen systems.

Dr. Ashot E. Sargsyan of Wyle - Outstanding collaboration with the international partner medical operations community and successful development of ultrasound techniques for medical imaging and clinical diagnosis on ISS and beyond.

Charles W. Schmitzer of Pratt & Whitney Rocketdyne - Unwavering dedication, attention to detail and demonstrated space propulsion engineering excellence in pursuit of mission success.

Mark B. Schrock of United Space Alliance - Outstanding design and development of innovative proximity operations techniques required to support the Space Shuttle program

Dr. Bruce M. Steinetz of NASA Glenn Research Center - Exceptional technical contributions in aerospace seals research and development and leadership of an internationally recognized NASA Seals team.

Todd R. Sullivan of Lockheed Martin - Outstanding leadership on the Orion project in performing requirements integration and analysis of weight, power and structure-reduction candidates.

Randall E. Sweet of Lockheed Martin - Extensive and significant contributions in the areas of flight test, missile launch, human space flight launch and ground operations, and spacecraft development including X-33, X-38 and Orion.

Dr. Leslie K. Tamppari of NASA Jet Propulsion Laboratory - Outstanding contributions to the scientific leadership of the Phoenix Mission as the project scientist, resulting in unprecedented scientific findings from the North Polar Region of Mars.

Carol L Webber of Lockheed Martin - Exemplary achievement in leading the Orion Composite Crew Cabin trade study to a consensus recommendation and securing a prompt decision from the administrator of NASA.

James S. Wood of NASA Kennedy Space Center - Outstanding technical leadership as the chief engineer instrumental in achieving exceptional mission performance for the launch services programs.

Lt. Col. Gregory E. Wood of the USAF - Outstanding contributions to the field of space launch, ensuring mission success and enabling future military spacelift capabilities and support to our nation's warfighters.

Robert A. Wright of United Space Alliance - Exceptional leadership and engineering expertise in resolving technical issues for the Space Shuttle program.

Gina M. Young of Lockheed Martin - Outstanding leadership and technical development in the field of environmental control and life support (ECLS) systems for human spaceflight, including leadership of ECLS development team for the nation's next human space vehicle, Orion.

2009 Stellar Award Nominees LATE CAREER

James P. Bray of Lockheed Martin - Outstanding leadership that has fostered a positive joint-ownership environment with NASA and contractor team members in the development of the Orion service module.

Jerry Burn of ATK Launch Systems - Exceptional contributions to the reusable solid rocket motor (RSRM) through knowledge of its joints, seals, propellant and ballistics, and advancement of models and analytical methods that have vastly improved RSRM reliability.

Scott A. Cannon of ATK Launch Systems - Vision, leadership and technical excellence in executing of the complex task of guiding multiple organizations to a successful Ares I first stage Preliminary Design Review milestone.

Cordell Christensen of ATK Launch Systems - Exceptional knowledge, personal dedication and leadership abilities instrumental in maintaining and enhancing manufacturing capabilities in support of NASA critical hardware and human spaceflight.

Lynn F. H. Cline of NASA Headquarters - Exceptional contributions to the global community through realized human and robotic partnerships and discoveries in space.

Mike DeVault of The Boeing Company - Outstanding leadership in transitioning and improving the engineering organization of Boeing Space Shuttle program integration

Luis A. Duarte of NASA Marshall Space Flight Center - Outstanding dedication to the pursuit of safety in human spaceflight through work on the Marshall Space Flight Center Safety and Engineering Review Panel.

Jon D. Frandsen of Pratt & Whitney Rocketdyne - Exceptional materials and processes technical expertise and leadership to the Space Shuttle main engine in support of flight safety.

Anita E. Gale of The Boeing Company - Relentless pursuit of more cost-effective cargo integration approaches, reducing both time and budget required to integrate payloads and vehicles and to deliver payloads to orbit.

Robert R. Graber of SAIC - Outstanding dedication, extensive analytical expertise, and contributions to quantitative risk analysis tools and methodologies in support of human spaceflight programs resulting in improved reliability, maintainability, supportability, and better informed risk-based decisionmaking.

Continued on next page

2008 Late-Career Category Stellar Award Winners

L to R: Astronaut Leland Melvin (presenting), James D. Milhoan, Stephen M. Francois, Beth Williams accepting for Paul Kharmats, Peggy E. Thomas, Charles R. Knarr, David B. Harris, and Astronaut Sunni Williams (presenting). *(NASA)*

Continued from previous page

Steven V. Hicken of ATK Launch Systems - Relentless pursuit of truth and understanding in the rigorous investigation of an Ares I first stage rocket motor insulation processing anomaly leading to a revolutionary insulation process methodology improvement.

Dan E. Jackson of Barrios Technology - Innovative leadership in redefining JSCMission Operations Directorate software engineering practices for the 21st century, and enabling advances in automation resulting in a reduction of ISS manual commanding by 10 percent

William A. Johns of Lockheed Martin - Exceptional achievements on the Orion project by reducing weight and power while maintaining focus on overall technical goals through management of the Orion Review Board.

Dr. Stephen W. Kahler of the USAF, Air Force Research Laboratory - Pioneering research in solar energetic particles and their relationship to solar flares and coronal mass ejections, leading toward early warning and eventual prediction of these potentially dangerous events.

Thomas D. Kmiec of Pratt & Whitney Rocketdyne - Outstanding technical ability and leadership in rocket engine components and systems resulting in successful NASA and DoD missions and institutionalization of systems engineering practices.

John B. Lauger of The Boeing Company - Outstanding leadership and technical contributions to the ISS that have advanced the nation's human space program.

Dr. Oleg M. Lvovsky of ARES Corporation - Nationally recognized contributions to human spaceflight test and verification, preserving and improving the integrity of NASA requirements, and ensuring future spaceflight successes.

Lon F. Miller of Jacobs Technology, Inc. - Exemplary career demonstrating extraordinary leadership qualities and dedication in support of NASA missions and the broader goals of space exploration

Dr. Kornel Nagy of NASA JSC - Exceptional technical leadership, judgment, and engineering excellence in the field of aerospace structural and mechanical systems.

J. Gary Rankin of NASA JSC - Exceptional technical contributions and leadership throughout an exemplary career in research, development, design, and operations of human spacecraft thermal control systems, including the Space Shuttle and ISS programs.

Ruel Russell of ARES Corporation - Invaluable contributions to safety and success of ISS visiting vehicle designs, resolving rendezvous and collision avoidance issues and realizing adequate controls and verification for catastrophic hazards.

Lincoln J. Salvador of The Boeing Company - Exceptional leadership, technical expertise, and integrity in managing Space Shuttle orbiter mechanical systems.

Thomas V. Sanzone of Hamilton Sundstrand - Exceptional contributions to EVA during a 40-plus year career, from the first human on the moon to current preparations for a return to the moon, Mars and beyond.

James H. Stramler of Barrios Technology - Unwavering dedication to duty as the spacecraft human factors and habitability expert in the Astronaut Office at the JSC, resulting in numerous key contributions to the design and construction of ISS hardware.

Glen E. Weeks of Pratt & Whitney Rocketdyne - Exceptional leadership and technical excellence in consistently assuring the on-time delivery of Space Shuttle main engine turbopump hardware.

Dr. Yiting Wen of MEI Technologies, Inc. - Exceptional contributions to the development and characterization of advanced detector systems for NASA's science missions.

Robert D. White of United Space Alliance - Exceptional dedication, broad orbiter knowledge, logical thought process, methodical execution and outstanding communication skills in service to human spaceflight.

Michael J. Witt of Pratt & Whitney Rocketdyne - Exceptional technical leadership and guidance in ensuring mission success of the RS-68 main propulsion system for the Evolved Expendable Launch Vehicle program.

2009 Stellar Award Nominees TEAM

360 Degree Liquid Oxygen Tank Flange Closeout Re-design Team of Lockheed Martin - Outstanding teamwork in developing, coordinating and implementing the single pass 360 liquid oxygen flange process change resulting in more than thirty days of processing time savings while maintaining mission success for the Shuttle external tank.

Altair Probability of No Penetration Analysis Tool Team of ARES Corporation - Outstanding technical excellence in developing a penetration analysis tool for micrometeoroid and orbital debris impacts to ensure compliance with Altair lunar lander loss-of-mission and loss-of-crew requirements.

Ares I Failure, Detection, Diagnostics and Recovery Team of NASA Marshall Space Flight Center - Outstanding team contributions to safer space exploration in the area of launch vehicle aborts, pre-launch diagnostics, and post flight analysis.

Atomic Oxygen Effects on Spacecraft Materials Team of NASA Glenn Research Center - Pioneering contributions for predicting and characterizing the effects of atomic oxygen on spacecraft materials and structures, and developing highly innovative and effective techniques to mitigate these effects on spacecraft components.

Booster Separation Motor Team of ATK Launch Systems - Outstanding achievement in preserving the Space Shuttle launch manifest with the successful transition, qualification, fabrication and delivery of Space Shuttle booster separation motors

Communication/Navigation Outage Forecasting System Team of USAF, Space Development and Test Wing - Extremely successful integration, testing, and launch of the Communication Navigation Outage Forecasting System mission, enabling a new capability to predict the effects of space weather on global communication and navigation systems.

Constellation Lunar Architecture Team of NASA JSC- Outstanding teamwork leading to a successful Lunar Capability Concept Review for the Constellation program.

Crew Escape Equipment Launch on Need Hot Cabin Environmental Test Team of United Space Alliance - Expedient and effective response to a concern that a Shuttle rescue flight could subject the crew to elevated temperatures and cause a safety-of-flight issue.

External Tank Engine Cut-Off System Redesign and Certification of Lockheed Martin - Technical excellence and outstanding team dedication in identifying the external tank engine cut-off system anomaly root cause and expeditiously redesigning and verifying a critical system.

Functional Mobility Testing Qualification of Functionally Utilized Mobility Among Unsuited and Suited Subjects Team of MEI Technologies, Inc. - Exceptional teamwork and technical achievement in creating a novel methodology for establishing functional mobility requirements of space suits.

Continued on next page

2008 Team Category Stellar Award Winners
Astronaut Sunni Williams (presenting), Daniel J. Sweeney (Booz Allen Hamilton), Joel S. Liebman (ARES), James J. Feeley (Lockheed Martin), Deborah G. Vane (JPL), Charles A. Finchum (MSFC), Colin Peterson (JSC), Harriett Lewis (ESC), and Astronaut Leland Melvin (presenting). *(NASA)*

Continued from previous page

ISS Crew of 6 Habitation Hardware Development Team of NASA JSC- Exemplary performance in the development and checkout of the crew habitation hardware required to expand the ISS to a crew size of six.

ISS Flight Software Formal Qualification Test Team of The Boeing Company - Outstanding effort to assure delivery of superior software products that support the safe, robust and efficient operation of the ISS, while exceeding customer expectations for timely and cost-effective performance.

ISS Hardware/Software Integration Team of The Boeing Company - Exemplary preflight testing of the H-II Transfer Vehicle flight vehicle, contributing significantly to mission success.

ISS Joint Station Local Area Network (LAN) Team of The Boeing Company - Successful design, development, integration, testing and on orbit deployment of the ISS joint station LAN that provides a high speed, low cost, Ethernet network for both operational and payload use throughout ISS, including both U.S. and International Partner modules.

ISS Solar Alpha Rotary Joint Recovery Team of NASA JSC- Exemplary performance in determining the root cause of the ISS Solar alpha rotary joint anomaly and implementing required measures to resolve the issue.

ISS Water Processor Assembly and Oxygen Generator Assembly Team of Hamilton Sundstrand - Outstanding development of water processing and oxygen generating equipment and deployment on the ISS to enable a six-person crew.

J-2X Rocket Engine Critical Design Review Team of Pratt & Whitney Rocketdyne - Outstanding contributions to development of the J-2X rocket engine that will be used to power launch vehicles to the ISS and Moon.

JSC Enabling Technology & Security Team of MEI Technologies, Inc. - Exceptional leadership, dedication and technical excellence in protecting JSC's information assets, quickly developing and implementing complex Information Technology solutions, and significantly improving the performance of JSC's network in support of Human Spaceflight.

K-band Traveling-Wave Tube Amplifier for the Lunar Reconnaissance Orbiter (LRO) Team of NASA Glenn Research Center - Exemplary performance in solving numerous technical problems associated with the development of a K-band traveling-wave tube amplifier for LRO.

Low-Density Parity Check Team of MEI Technologies, Inc. - Outstanding contributions to developing enabling technologies and providing solutions to challenging technical problems of increasing the high-speed downlink rate in satellite communications.

"Meet the Manifest" Thermal Protection System Design/Process Change Team of Lockheed Martin - Successful teamwork in coordinating process and design changes that reduced rework and improved delivery schedules for the Shuttle external tank while lowering debris potential.

National Space Biomedical Research Institute User Panel of National Space Biomedical Research Institute - Outstanding insight and expert guidance in developing

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In addition to a marble trophy, Stellar Award winners receive a professionally crafted plaque like this one.

high-priority, operationally relevant countermeasures to biomedical risks associated with human space exploration.

Orbital Orion Launch Abort System Rocket Motor Integration Support Team of ARES Corporation - Outstanding technical and leadership contributions to rocket motor development efforts on the joint Orbital Sciences NASA Orion Launch Abort System team responsible for the integration of the abort motor, attitude control motor and the jettison motor for the Pad-Abort 1 test.

Phoenix Project Team of NASA Jet Propulsion Laboratory - Outstanding technical excellence and team dedication enabling another first for the United States space program by the successful polar mission around another celestial body.

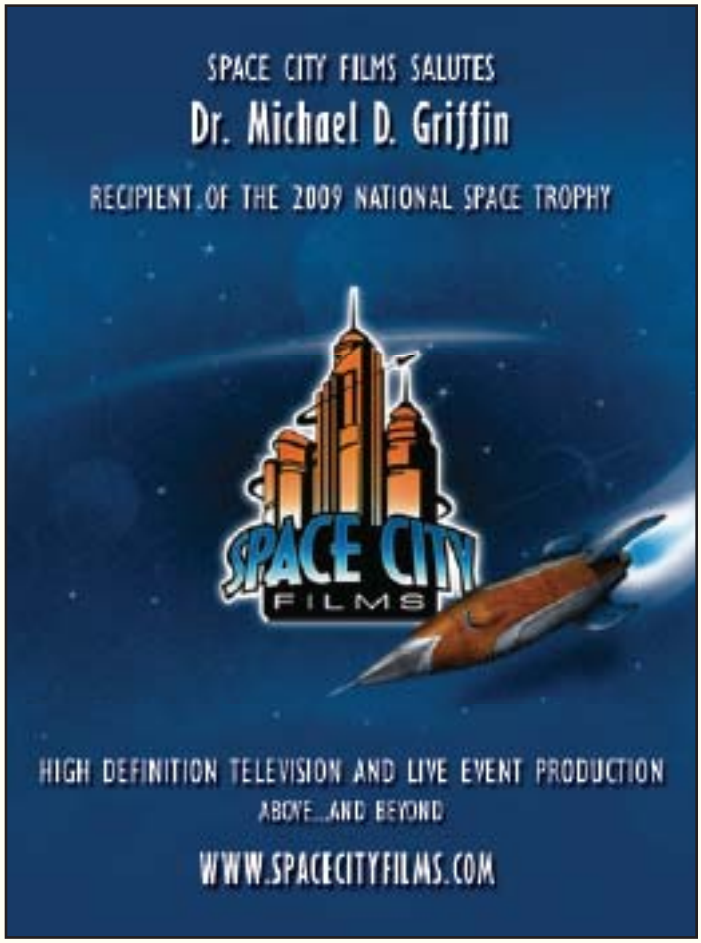
Reusable Solid Rocket Motor Intelligent Pressure Transducer Team of ATK Launch Systems - Exceptional effort and dedication in the development, qualification, and implementation of a stand-alone intelligent pressure transducer for collecting motor ignition and thrust oscillation data on Space Shuttle reusable solid rocket motors for better understanding of the Ares I first stage.

Reusable Solid Rocket Motor Process System Design Team of ATK Launch Systems - Exceptional creativity and perseverance in developing a revolutionary new production system yielding profound improvement results and laying a strong foundation for the future needs of human spaceflight

Sensor Data Qualification System Team of NASA Glenn Research Center - Successful development and proof-of-concept demonstration of sensor data qualification technology enabling its incorporation into the onboard fault detection, notification and response system for the upper stage element of the Ares I launch vehicle.

Shuttle Crew Escape Equipment (CEE) Communication Upgrade Project Team of United Space Alliance - Exceptional teamwork to redesign and fabricate new communication cable for the CEE Helmet and communications carrier assembly used by Space Shuttle astronaut crewmembers.

Small Pressurized Rover Team of NASA JSC- Outstanding team effort to develop a radically different form of surface transportation that will enable new types of human exploration.



Space Shuttle Guidance, Navigation and Control Team of The Boeing Company - Exceptional contributions to continued safe operation of the Space Shuttle by responding to the pressures of retaining a critical skill base through initiatives intended to improve the quality of Shuttle mission support in an environment of diminishing resources.

Total Organic Carbon Analyzer Project Team of Lockheed Martin - Exceptional dedication, hard work, and technical excellence in the development, fabrication and certification of the total organic carbon analyzer in support of the ISS six-person crew.

Waste and Hygiene Compartment Development Team of The Boeing Company - Extraordinary technical excellence in development of waste and hygiene hardware to support expansion to six-person capability on the ISS.

Michael D. GRIFFIN

2009 National Space Trophy Recipient

2009 ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

Griffin with Pam Melroy after STS-120, Nov. 2007 *(NASA)*

been the technical leader of an APL team that worked on Hubble's Fine Guidance System in 1982-84. "Along with everyone else who was ever asked to review the program, my team at APL cited the need for end-to-end testing of the optical system," Griffin said. He said, "I learned more about what not to do by working on the periphery of the HST program, than from anything else I ever did. … But in the end, as always happens when we persist through difficult times, Hubble turned out great."

Griffin served as general manager of Space Industries in Houston from early 1994 to mid 1995. He then joined Orbital Sciences in Virginia as Space Systems Group manager, responsible for all space systems development programs including the X-34 reusable launch vehicle and the ORBCOMM and ORBVIEW satellite constellations. He later became chief executive officer of Magellan Systems, Inc., a division of Orbital Sciences.

From August 2002 to March 2004, Griffin was president and COO of In-Q-Tel working on advanced technologies for CIA applications. He then returned to JHU as Space Department head. He initiated ISO9001 quality management certification efforts and oversaw the preparation, launch, and early operations of the MESSENGER spacecraft that launched to Mercury in August 2004.

He was with JHU when he was selected as NASA Administrator by President Bush in 2005. Griffin developed the plan for completion of the International Space Station following the loss of Space Shuttle Columbia and personally directed the return to flight. Onboard STS-114 was his original copy of A Child's Book of Stars. "Eileen Collins, Commander of Discovery STS-114, enlisted the aid of my friend Marsha Ivins to find something personal to fly for me on that mission," Griffin explained. "Working without my knowledge, Marsha and my wife, Rebecca, smuggled the book out of the house and down to JSC, where it was bagged and tagged and flown, then returned to me in a surprise ceremony after the flight. I had it mounted and framed, and today it is one of the very few possessions that actually matter to me."

Griffin initiated the first procurement of commercial cargo and crew service in the agency's history; successfully established the architecture for a sustainable, achievable, and technically viable human exploration program; and awarded the initial spacecraft and launch vehicle contracts to ensure the program meets its demanding schedule.

Working with the team leading the Centers and Mission Directorates is what Griffin cited as the most rewarding aspect of his job. He called them "as good a team as has ever managed NASA," and added, "I couldn't get to work quickly enough." His time at NASA ended with the transition to the Obama Administration in January 2009.

Griffin's future is uncertain, but sure to include more education. "I've enrolled in two degree programs that I was not able to complete because of job changes that occurred while I was in the middle of them. And I love to teach."

Griffin is a registered professional engineer in Maryland and California, a member of the National Academy of Engineering and the International Academy of Astronautics, an honorary fellow of AIAA (2006), a fellow of the American Astronautical Society (2002), and a senior member of the Institute of Electrical and Electronic Engineers.

Griffin met Rebecca Lee Hann in Houston in the early 90s when she was working for Hughes Aircraft. It took

Continued on next page

Griffin at STS-124 launch, May 2008 *(NASA)*

Griffin with his Blackberry, 2007 *(NASA)*

him two years to ask her out. They went golfing and were engaged six weeks later. They married in 1993. "It was the best single decision I ever made," he said. Mrs. Griffin stays home with their child who is almost ten, and consults part-time in her specialty, aerospace industry marketing. Dr. Griffin also has three children from a previous marriage. Besides flying and golf, Griffin enjoys amateur radio, skiing, and scuba diving.

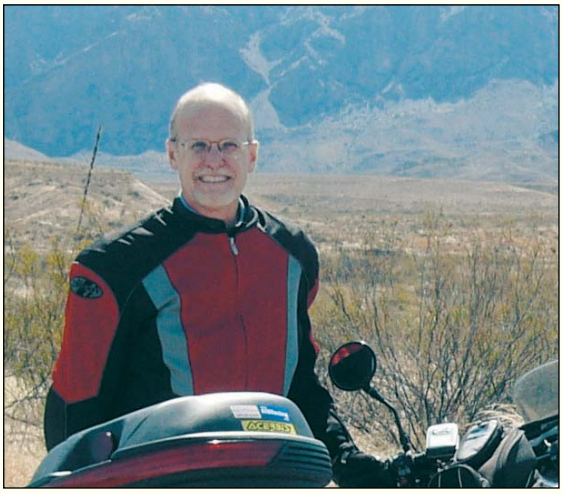
He is the recipient of numerous honors, including the Defense Department's highest award which can be conferred on a non-government employee, Distinguished Public Service Medal (1986); the AIAA Space Systems Medal (1988), the Significant Technical Accomplishment Award (Delta 183 Mission Team) from the American Defense Preparedness Association (1989); the NASA Exceptional Achievement Medal (1994); the Goddard Astronautics Award (2007); selection by Time Magazine as one of the 100 Most Influential People of 2008, and the 2009 Goddard Trophy.

Besides his initial BA, master's, and PhD, Griffin holds master's degrees in electrical engineering from the University of Southern California, applied physics from JHU, civil engineering from George Washington University, and business administration from Loyola College of Maryland.

Griffin watches STS-122 launch, February 2008 *(NASA)*

In awarding Griffin the 2009 National Space Trophy, former Apollo astronaut and 2008 Trophy winner Capt. Eugene Cernan said, "Mike Griffin has made an enormous contribution to the American Space Program throughout his career as a scientist, engineer, and manager. Few people understand the challenges and rewards of spaceflight like he does. Mike has been a visionary, but with a realistic and pragmatic approach to the challenges he has faced."

From all of us in RNASA, congratulations, Mike.



Pat Rawlings, 2009 *(Photo courtesy Rawlings)*

COVER ART

Renowned space artist Pat Rawlings created the original art that graces the cover of this year's program book. Employed by SAIC, Rawlings painted the portrait for the first National Space Trophy winner in 1987, again in 1991, and for every winner since 2001.

Rawlings makes scenes as accurate as possible by consulting with space experts, using computer models, topographical maps, and space and family photos. "Space exploration is full of fascinating stories," Rawlings told RNASA. "I try to visually tell the possible stories of the future. Imagine hard enough, and you can be there."

Dr. Griffin's portrait will be on display at Space Center Houston for the next year.

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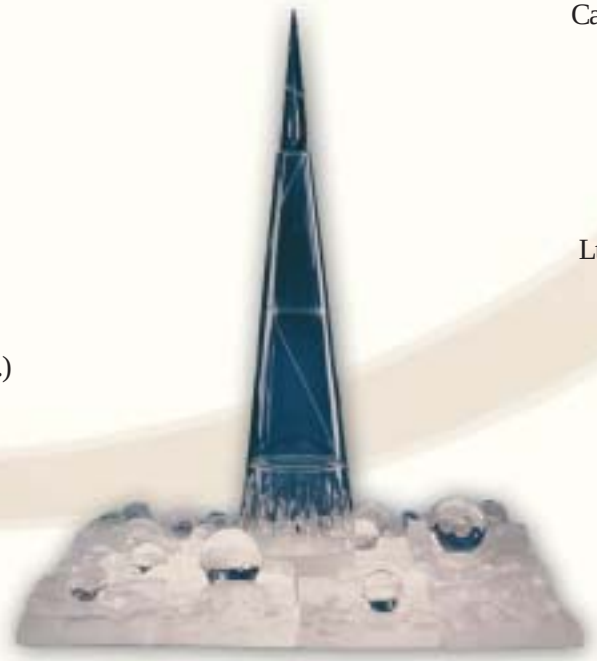

The National Space Trophy is on permanent display at Space Center Houston. The 500-pound lead crystal trophy features a thin white line spiraling to the top, etching our path to the stars. (RNASA)

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BETWEEN SOMEDAY AND LAUNCH DAY, THERE IS ONE IMPORTANT WORD: HOW.

Achievement in space depends on the ability to translate vision into mission success. Thanks to Mike Griffin's leadership, our nation is building the spacecraft and systems required for a bold new era of space exploration. We congratulate Mike Griffin, winner of the 2009 National Space Trophy, and all the Stellar Award nominees.

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