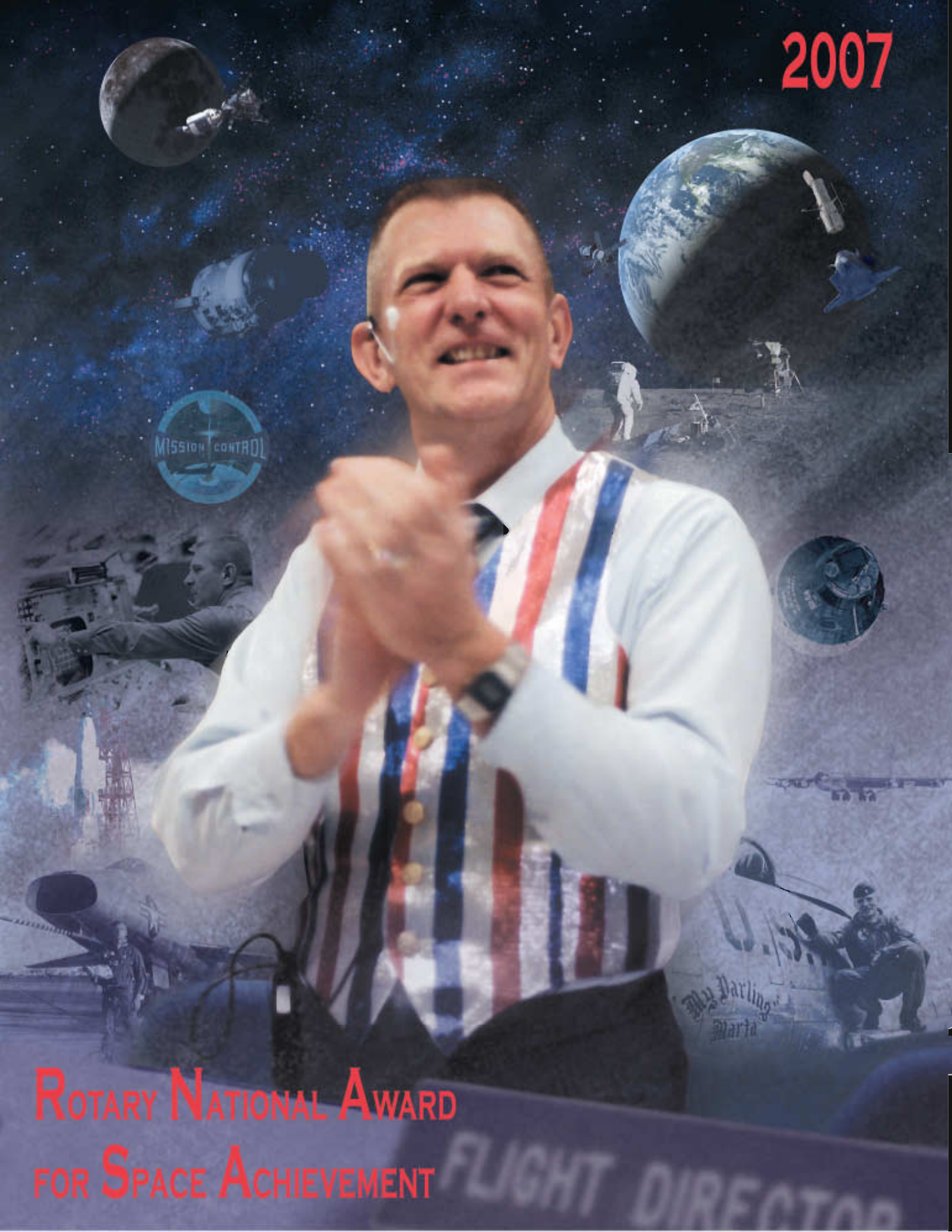


2007



ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT

FLIGHT DIRECTOR



ENGINEER.
FLIGHT DIRECTOR.
LEADER.
GIANT.

For an incredible career and
a lifetime of service marked
by brilliance and courage,
Boeing is proud to congratulate
Gene Kranz on receiving the
2007 National Space Trophy.





NATIONAL SPACE TROPHY RECIPIENT



**Eugene
F.
“Gene”
Kranz**



NASA photo

Eugene F. “Gene” Kranz, former Director of Mission Operations for NASA and famed Flight Director of Apollo 13 where failure was never an option, was selected by the RNASA Board of Advisors as the winner of the 2007 National Space trophy. He is cited for “outstanding achievements in his pivotal role in the development of flight control operations for all manned space flights.”

Mr. Kranz was born on August 17, 1933, in Toledo Ohio. After his father died in 1940, his mother took in boarders. “We lived near the USO in West Toledo and throughout WWII we always had 3-5 GI’s in the house,” Kranz said in an interview with the author. “The GI’s were instrumental in instilling in me a love of country and a deep sense of desire to serve. My relatives served in Europe and the Pacific. I listened to their stories and followed their battles in my mind.”

The Korean war began while Kranz was in high school. He planned to join the Navy, but did not pass the physical required for entrance to Annapolis. He then pursued a degree in aeronautical engineering to increase his chances of becoming an Air Force pilot. He received his BS in Aeronautical Engineering from Parks College of Saint Louis University in 1954.

He was commissioned in the U.S. Air Force in 1954, and fulfilled his wish to become a pilot of high performance aircraft including the F-80, F-86, and the F-100. Future wife Marta Cadena from Eagle Pass, Texas pinned the wings on him when he graduated from flight training in 1956. “It was love at first sight,” Kranz admits. “We had only seven dates a couple where we had to travel a thousand miles to get together.” They were married 50 years ago this month. “I was on

an Air Defense Exercise and could only get a three-day pass. Our best man and I drove from North Carolina to Texas on a Friday, got married Saturday, and drove back Sunday. Three months later I was shipped to Korea.” The couple had six children between 1958 and 1966; Carmen, Lucy, Joan Frances, Mark, Brigid, and Jean Marie; and now have twelve grandchildren.

Kranz served as a flight test engineer at Holloman AFB, New Mexico, for McDonnell Aircraft developing the Quail Decoy Missile for the B-47 and B-52 aircraft from 1958 to 1960. “The program was wrapping up in the summer of 1960,” Kranz said. “I was offered a position at Edwards and in St. Louis on the Phantom II, but in the spring of 1960, I started following the *Aviation Week* reports on Project Mercury.” He spotted an ad for engineers for the Space Task Group in the July issue. “I applied and was hired sight unseen, reporting to Langley in October. Two weeks after being hired, Kraft sent me down to the Cape to write the MR-1 [Mercury Redstone] countdown and some ‘Mission Rules.’”

In a recent interview, Dr. Kraft recalled, “My first real encounter with him was when we all went to Cape Canaveral as a team of flight controllers to prepare for the first launch of the Redstone and Atlas rockets... He rapidly became a key member of the group and a strong contributor to the development of flight control techniques... He was unquestionably a leader.”

Kranz served as assistant flight director for Project Mercury. In 1962, he moved to Houston as branch chief for Flight Control Operations and assumed flight director duties for all Project Gemini missions. His job “was to train, plan, and provide the remote site teams and systems engineers and procedures personnel for, Mission Control. Included in the duty was the development of all controller console documentation, countdowns and mission rules. I also had a small group to provide the integrated crew and controller integrated training.”

Continued on next page



**Apollo
Flight
Direc-
tor
Kranz**

NASA photo



NATIONAL SPACE TROPHY RECIPIENT CONT.



The Apollo 13 Flight Operations team celebrate a “successful failure.”

NASA photo

L to R: Cliff Charlesworth, Glynn Lunney, Gene Kranz, Chris Kraft, Jr., George Mueller, Robert Gilruth, George Low, and Charles Mathews.

Continued from previous page

Kranz was promoted to division chief for Flight Control in 1968, and continued his duties as flight director for the Apollo program. Kranz said, “I do not think that any of us really imagined the impact we would someday have on history. The first time I really felt the impact were the moments sitting with Cliff [Charlesworth] and Glynn [Lunney] as the Apollo 8 crew started reading from the Book of Genesis. It was only fleeting, and then it was time to go back to work.”

This happened again on Apollo 11. “The classical Gene Kranz event took place as the *Eagle* landed on the lunar surface during Apollo 11,” Kraft said. “As everyone both in and around the MCC and in the world celebrated the touchdown at Tranquility Base, Kranz allowed about 15 seconds of revelry, and immediately **commanded** everyone within both hearing distance and over the intercom, to get back to their assigned task and assure that all was well and ready to perform a launch of the Lunar Module from the moon should an emergency occur. He was always ready for the next event to take place—either normal or abnormal. He was indeed the perfect man for the job.”

Kranz was flight director during Apollo 13 when a routine maintenance task caused an oxygen tank to explode, crippling the vehicle. “He knew the spacecraft and rocket

systems totally,” Kraft said. “It was this attention to detail and the actions he caused to take place that saved the lives and mission of Apollo 13.”

Kranz performed as both a flight director and flight operations director for the Skylab program, and, at its conclusion, was assigned as deputy director of Flight Operations with responsibility for space flight planning, training and mission operations, aircraft and astronaut operations. He retired from the Air Force Reserve as a Captain in 1972.

THE SHUTTLE ERA

In 1983, Mr. Kranz was assigned as director of Mission Operations with responsibilities for all aspects of mission design, testing, planning, training and spaceflight operations. Additionally he was responsible for the design, development, maintenance, and operations of all related mission facilities, as well as the preparation of the shuttle flight software. In this capacity, he was responsible for over 6,000 employees with an annual budget of approximately \$750 million. Mr. Kranz retired from NASA in March 1994 after 37 years of federal service.

Continued on page 6



Congratulations to
Eugene F. "Gene" Kranz
**2007 National Space
Trophy Recipient**

and all the
2007 Stellar Award Winners
from industry and government
who have made significant
contributions to the future of
our nation's space program.

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NATIONAL SPACE TROPHY RECIPIENT CONT.



MOD Kranz celebrates 41-C (STS-13) in 1984



NASA photo

became a *New York Times* bestselling author. His book *Failure is Not an Option* was published by Simon and Schuster that year and in paperback by Berkeley Books in 2002. The book chronicles his work in mission control from Project Mercury through Apollo 13 and beyond. The book was selected by the History Channel as the basis for two documentary programs broadcast as two-hour specials in August 2003 and 2005. He is currently working on a book about leadership.

Kranz was a co-recipient of the Presidential Medal of Freedom awarded by President Nixon for the Apollo 13 mission and was designated a distinguished member of the Senior Executive Service by President Reagan. He received the AIAA Lawrence Sperry Award in 1967, the AAS Spaceflight Award in 1987, the Gilruth Award in 1988, an honorary doctorate from the Milwaukee School of Engineering in 1996, and numerous other honors and awards throughout his career.

When asked what advice he would offer to this year's Stellar nominees, he said, "The foundations of Mission Operations represents the "Value" set for achieving excellence as a professional. If these standards are visible in every aspect of your work, you will be recognized as a person of integrity. With integrity comes trust, and with trust comes teamwork that will allow you to achieve virtually every goal."

The RNASA Foundation takes great pleasure in awarding Mr. Kranz the Rotary National Award for Space Achievement's National Space Trophy for his outstanding accomplishments. Congratulations, and thank you for your leadership and inspiration. 📧

Continued from page 4

"The element of my career that satisfies me the most is to see that the 'Culture of Excellence' we established in the early years continues to thrive in Mission Control today. It is my belief that in some way I helped develop and set the foundation for today's teams," Kranz said. "I speak to the elite warriors of today's military. I rank the "elite" mission control teams in the same category. When they leave Mission Control, the flight directors and controllers assume leadership roles in many areas of Johnson Space Center and the space program. Years ago we set the performance reference when we wrote "The Foundations of Mission Control" (see page 26). The performance of today's generation in Mission Operations makes me proud."

Current activities include consulting and motivational speaking to professional, civic and youth groups. "I speak to 40-60 corporate, military and air show events each year. I am speaking to each of the seven classes/year that graduate from Squadron Officer's School at Maxwell AFB, Alabama. I often tag up with [Apollo 13 commander] Jim Lovell for talks."

He still loves to fly. He was a flight engineer on a B-17 "Flying Fortress" from 1992 to 1998, performing at air shows throughout the United States. He built an aerobatic biplane that is on display at the Lone Star Museum in Galveston, Texas. Today he does his flying as a "back seater." His price for air show speaking is a ride with the performers. He has recently flown with the Blue Angels and Heritage pilots in a P-51 formation with an F-22 Raptor.

Kranz was the author of the "Spaceflight" section of the 1984 and 1988 *World Book Encyclopedia*. In 2000, Mr. Kranz



*Kranz
inspires
crowds all
over the
nation*

Photo courtesy 2003 Cleveland Air Show

American Pacific
Corporation would
like to Congratulate



EUGENE F. "GENE" KRANZ

A True Leader

2007 National Space Trophy Award Winner

and all 2007 Stellar Award nominees and winners for their
extraordinary contributions to space achievement



American Pacific Corporation
Contributing to Space Propulsion for over 50 Years



MASTER OF CEREMONIES



Jim Hartz



The RNASA Foundation is pleased to have one of our original Master of Ceremonies, Jim Hartz, return to host this evening's activities. Hartz served as MC for the RNASA annual banquets from the 1991 event honoring Lew Allen to the 1996 event honoring Robert Crippen. He joined the RNASA Board of Advisors in 1996.

An award-winning broadcast journalist, Hartz is perhaps best known as the host (with Barbara Walters) of NBC's *Today Show* from 1974 to 1977. He was an NBC News correspondent from 1964 to 1979. He covered the Gemini and Apollo programs, reporting from the Kennedy Space Center, Houston and New York.

Hartz also has written articles for many national magazines, including *National Geographic* and *Reader's Digest*. Commissioned to write an article for *Reader's Digest* he was the first reporter to fly in the SR71 spy plane, at Mach 3, above 80,000 feet. It was titled, "Alone, Unarmed and Untouchable." Earlier, as a military and aerospace reporter for NBC News, Hartz was the first reporter to fly the U2 spy plane and the F15 Eagle. He also has flown with the U.S. Navy precision flying team *Blue Angels*. He was a finalist in the Journalist in Space project before it was cancelled in the wake of the *Challenger* accident.

He also is the former host and chief correspondent of *Innovation*, a PBS science and high technology series that earned two Emmys and the New York Film Festival's Gold Medal Award for Best Science Program. He was cohost with actress Mary Martin of *Over Easy*, a popular PBS series, and he served as commentator for the *American Viewpoints* series on Time, Inc.'s cable TV systems. Hartz hosted *Asia Now*, a joint venture of PBS and NHK (Japanese public television). He visited Asia more than 30 times while working on this project, logging nearly

a million airline miles.

During his broadcasting career, Hartz has received many awards, including five Emmys, the highest honor given for television broadcasting by the National Academy of Television Arts and Sciences. He earned Emmys for his coverage of the *Apollo* moon flights; for his reporting on the 1973 *Middle East War* during which he was under fire; for an exposé on the dangers of materials used in children's camping tents, and for a documentary, *Hold for Justice*. He was nominated for an Emmy as best host for a talk show (*Today*, NBC, 1975), best host for a talk show (*Over Easy*, PBS, 1982), and as best host (*Innovation*, PBS, WNET, 1983). He won two Ace awards, highest recognition of the cable television industry, for his commentaries for Time-Life on *American Viewpoints*.

He was recently a Visiting Professional Scholar at the First Amendment Center at Vanderbilt University, where he co-authored a book on the historic relationship between the media and science and technology entitled *Worlds Apart*. His collaborator on the book was Dr. Rick Chappell, former science astronaut and associate director for science at the Marshall Spaceflight Center.

He is a spokesman for major internal communications for Johnson & Johnson, the world's largest consumer pharmaceutical and healthcare company. He has traveled to China, Japan, Singapore, Brazil, Puerto Rico, Mexico, France, England and Germany for Johnson and Johnson.

Born in Tulsa, Oklahoma, Hartz began his broadcasting career there. In 1990, Hartz was named to the Oklahoma Hall of Fame.

Hartz is married to Alexandra Livingstone Dickson, L.C.S.W., a psychotherapist in private practice, and is the father of three children and six grandchildren. He lives in Alexandria, Virginia. ☺



Barbara Walters & Jim Hartz



vision leadership

Congratulations to Gene Kranz, recipient of the 2007 National Space Trophy

A true pioneer, Gene Kranz helped define the approach for human Space flight, contributing to the success of Apollo, as well as the Space Shuttle and International Space Station programs. As “White Flight,” Gene was instrumental in establishing the foundation for a culture of excellence focused on discipline, competence, confidence, responsibility, toughness, teamwork, and vigilance. That culture—still very alive today— will help our Nation to achieve our exploration goals of returning to the Moon and extending our journey on to Mars.

Booz Allen Hamilton proudly honors Gene’s vision and we commend his leadership in human flight and space exploration.

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NATIONAL SPACE TROPHY PRESENTER



NASA photo

*Dr. Christopher C.
Kraft at 2005
RNASA banquet*

A member of the RNASA Board of Advisors and former winner of the National Space Trophy (1999), Dr. Christopher Kraft, Jr., is pleased to present this year's trophy to Gene Kranz, whom he called "a natural flight director."

Born in Phoebus, Virginia in 1924, Kraft graduated from Virginia Polytechnic Institute in 1944, and joined the National Advisory Committee for Aeronautics, NASA's predecessor, at Langley Field in Virginia the next year. He spent fourteen years testing military aircraft and earned a reputation for solving conflicts among the various contractors and military agencies. After Sputnik in 1958, Kraft became one of the original members of the Space Task Group developing Project Mercury. He created the engineering and operations organization that developed and implemented standards for space flight operational control. He oversaw the design, development and implementation of the Mission Control Center in Houston.

The first Flight Director of the space program, Kraft led the development of flight mission rules and operations procedures that were major elements in ensuring the safety of human spaceflight. After serving as Flight Director for Mercury and the first seven flights of Gemini, he was Director of Flight Operations through Apollo 12. As director of Flight Operations, Kraft assumed the responsibility for defining the trajectory requirements and programming of the ground and onboard systems for complex maneuvers in space. He also directed the development of an advanced hardware-software system to provide comprehensive high-fidelity simulations of

space missions, including contingency operations. He remained director of Flight Operations through the second landing on the Moon. Kraft became Deputy Director of the Manned Spacecraft (now Johnson Space) Center in 1969. He rose to Director two years later and played a vital role in the success of the final Apollo missions and in the flight tests of the Space Shuttle.

Kraft remained director of Johnson Space Center until his retirement in 1982. Since his retirement, Kraft has been an aerospace consultant and served on the Board of Directors of a number of Houston companies. He is a member of the National Academy of Engineering, a corresponding member of the International Academy of Astronautics of the Internal Astronautical Federation, an honorary member of the Aerospace Medical Association, and a fellow in the American Astronautical Society. His bestselling book, *FLIGHT: My Life In Mission Control*, was published in 2001. He has received many honors and awards, including Honorary Doctorates from three universities and the National Order of the Legion of Honor of France. NASA awards include three Distinguished Service Medals and a special award in 1982, the distinguished service medal of the National Advisory Committee for Aeronautics. The RNASA Foundation especially appreciates his service as an expert evaluator of the Stellar Award nominees.

Kraft lives in the Clear Lake area with his wife, the former Elizabeth Anne Turnbull. They have two grown children; son Gordon of San Francisco, California; and daughter Kristi-Anne of Lake Jackson, Texas, and five grandchildren. ☺

POWERING DREAMS INTO REALITY

Congratulations to
Eugene F. "Gene" Kranz,
2007 National Space Trophy recipient,
from the employees of
Pratt & Whitney Rocketdyne.

We also congratulate the
Stellar Award nominees and winners
for their contributions to
American success in space.



Pratt & Whitney

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R NASA S STELLAR A AWARD P PRESENTER



NASA photo

*Joan
Higginbotham
during STS-116 in
December, 2006*

The RNASA Foundation is pleased to have astronaut Joan Higginbotham return as a stellar award presenter this year. Higginbotham completed her first spaceflight on STS-116 in December 2006. The crew continued construction of the *International Space Station (ISS)* by adding the P5 spacer truss segment and rewiring the station's power system during four spacewalks. *Discovery* also ferried Expedition 14 crewmember Sunni Williams to the station, and returned European astronaut Thomas Reiter. Higginbotham was primarily responsible for robotic arm operations during the 12-day mission.

Originally from Chicago, Higginbotham graduated with a Bachelor of Science degree in electrical engineering from Southern Illinois University at Carbondale in 1987. She began her career as a payload electrical engineer at Kennedy Space Center (KSC) that same year. She worked on payload bay reconfiguration, electrical compatibility tests, analysis in support of simulation tools and on interactive displays detailing Space Shuttle processing procedures. She served as backup orbiter project engineer for Space Shuttle *Atlantis*. She participated in the integration of the orbiter docking station used for Shuttle/Mir docking missions. Higginbotham was promoted to lead orbiter project engineer for *Columbia* responsible for the integration of vehicle testing and troubleshooting from the firing room. She participated in 53 Shuttle launches during her nine years at KSC.

In 1992, Higginbotham earned a masters of management, and in 1996, a masters in space systems, from the Florida Institute of Technology.

She was selected as an astronaut in 1996, and worked in the Payloads & Habitability Branch, the Shuttle Avionics & Integration Laboratory, and the KSC Operations Support Branch, testing *ISS* modules for operability, compatibility, and functionality prior to launch. She worked in the Astronaut Office CAPCOM (Capsule Communicator) Branch in the startup and support of numerous space station and shuttle missions. Higginbotham was also assigned to the Robotics Branch and as the lead for the *International Space Station* Systems Crew Interfaces Section. During her first mission, STS-116, which flew from December 9-22 of last year, she logged more than 308 hours in space.

Higginbotham is a member of the Delta Sigma Theta Sorority, the Gulf Coast Apollo Chapter of the Links, the Association of Space Explorers, and a board member of the Sickle Cell Association of the Texas Gulf Coast. She has received numerous awards including the NASA Exceptional Service Medal, Keys to the Cities of Cocoa and Rockledge, Florida, a Presidential Sports Award in bicycling and weight training, and a Commendation of Merit for Service to the Department of Defense. She is single and enjoys body building, music, motivational speaking, and cycling. ☺



**MEI TECHNOLOGIES
AND ITS EMPLOYEES
CONGRATULATE**

GENE KRANZ

**RECIPIENT OF THE
2007
NATIONAL SPACE TROPHY**

**FOR OVER 30 YEARS
OF SERVICE TO NASA**



ATK congratulates the Stellar Award winners and Eugene F. "Gene" Kranz—recipient of the 2007 National Space Trophy. Thanks for showing the world that "failure is not an option."

A Proud Partner in America's Future



R NASA S STELLAR A AWARD P PRESENTER



NASA photo

*James F.
Reilly, II,
Ph.D.*

Returning for his sixth year presenting the stellar awards is veteran astronaut Dr. James Reilly, II. As this book went to press, Reilly was awaiting launch on STS-117, a member of the crew delivering another set of solar arrays to the *International Space Station (ISS)*.

Born in 1954 at Mountain Home Air Force Base, Idaho, Reilly considers Mesquite, Texas his hometown. He received a US Navy ROTC scholarship in 1972 and earned his Bachelor of Science degree in 1977 from the University of Texas (UT)-Dallas. Reilly entered graduate school and was selected to participate as a research scientist specializing in stable isotope geochronology as part of the 1977-1978 scientific expedition to Marie Byrd Land, West Antarctica. For this work, he received an Antarctic Service Medal in 1978. He received his Master of Science degree in 1987 and his Doctorate in geosciences in 1995 from UT-Dallas.

In 1979, Reilly was an exploration geologist with Santa Fe Minerals Inc., in Dallas. From 1980 to the time he was selected for the astronaut program, Reilly was an oil and gas exploration geologist for Enserch Exploration Inc., in Dallas, rising to the position of chief geologist of the Offshore Region. While serving as an exploration geologist, he was also actively involved in the application of new imaging technology for industrial applications in deep water engineering projects and biological research. Reilly spent approximately 22 days in deep submergence vehicles

operated by Harbor Branch Oceanographic Institution and the US Navy.

Selected as an astronaut in 1994, Reilly first worked technical issues for the Astronaut Office Computer Support Branch. He flew on *Endeavour* as a mission specialist on STS-89 in January 1988, the eighth shuttle-*Mir* docking mission that delivered Andy Thomas to *Mir* and returned David Wolf. The 8-day mission made 138 orbits of the Earth. After that flight, Reilly became the Astronaut Office lead on shuttle training.

From July 12-24, 2001, Reilly flew on STS-104/Flight 7A, an assembly mission for the *ISS*. Flight 7A delivered and installed the *Quest* airlock. Reilly performed three spacewalks during this mission, with the third one the inaugural spacewalk from the new airlock. After this 12-day mission, Reilly had logged over 517 hours in space. He served as payloads and procedures operations lead for the Astronaut Office *ISS* Branch.

Reilly is single and enjoys flying, skiing, photography, running, soccer, hunting and fishing. ☺



OMEGA

11 NASA TESTS, 6 MOON LANDINGS,
88 SHUTTLE FLIGHTS, 110 MISSIONS, ONE WATCH.




OMEGA



RNASA FOUNDATION COMMITTEE



Photo by J. Pamela Photography, Inc.

RNASA Foundation Committee Back L to R: Duane Ross, Bill Geissler, Robert Wren, Bill Taylor, Richard Jackson, Sheila Self, Marcus Havican, Jeffrey Carr, Jack Lister. Front L to R: Tim Kropp (Treasurer), Marianne Dyson, John Wilkins, Ann Charles, Floyd Bennett (Chairman), Dr. L. Jean Walker, Frank Perez, Mary Alys Cherry, Rodolfo Gonzalez (Secretary). Not pictured: Shelley Baccus, Gary Johnson, Jennifer Mitchell, Bill Vantine.

Just as the crystal of the National Space Trophy captures the light within, so do the actions of humans exploring space capture and inspire others to strive for great achievements. The Rotary National Award for Space Achievement (RNASA) Foundation was established twenty-one years ago by the Space Center Rotary Club to organize and coordinate an annual awards event to recognize outstanding achievements in space and create greater public awareness of the benefits of space exploration.

People who have made notable contributions in the field of space exploration are nominated by individuals and by government, industry, and professional organizations. A ballot is voted upon by the Foundation's Board of Advisors (page 34) who are leaders with expert knowledge of the space program. The confidential votes are tabulated by an independent accounting firm. The winner is presented with the National Space Trophy (page 34).


The trophy, designed by Steuben Glass Company of New York, is made entirely of lead crystal, weighs approximately 500 pounds, and stands nearly four feet tall. Each year, the winner's name is added to the trophy display case, and the individual is presented with a smaller trophy of the same design. Also, the winner's portrait, which appears on the cover of the program book, is displayed with the trophy.

Nominations for Stellar Awards for individual and team achievements are solicited from NASA, the military, and industry leaders in human and unmanned spaceflight programs. In order to ensure recognition of individuals at all stages of their careers,

nominations were solicited for four categories: Early-career (to age 33), Mid-career (age 34-50), Late-career (over age 50), and Teams. Nominations (pages 20-31) are reviewed by a distinguished panel whose decisions are based on which accomplishments hold the greatest promise for furthering future successes in space. Top ranked nominees receive Stellar Awards. This year's judges were previous National Space Trophy winners (page 32-33), Dr. Aaron Cohen (1991), Dr. Christopher Kraft, Jr. (1999), and Dr. Glynn Lunney (2005).

The Foundation also selects individuals or groups for special awards such as the Space Communicator Award given to a professional who has made an important contribution to the public's understanding of and appreciation for the accomplishments of the American space program. This category includes journalists, government public affairs professionals, industry public relations professionals, broadcasters, publishers, and public figures.

The RNASA Foundation is a nonprofit organization supported by sales of banquet tickets and program book advertisements. Proceeds remaining after this year's event will be donated to an organization involved in aerospace education.

The Foundation 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. 



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Thanks to Stellar Evaluators

Dr. Aaron Cohen
Dr. Christopher C. Kraft, Jr.
Dr. Glynn S. Lunney

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21ST



RNASA BANQUET

Friday, April 20, 2007

6:00

RECEPTION

Victoria Stone, pianist

7:00

WELCOME

Floyd V. Bennett, Chairman, RNASA Foundation

PRESENTATION OF THE COLORS

Clear Lake High School Army JROTC Color Guard

NATIONAL ANTHEM

Kelly Williams, soloist

INVOCATION

Tony Vincent, pastor,
Clear Lake United Methodist Church

DINNER

8:15

OPENING VIDEO

MASTER OF CEREMONIES

Jim Hartz

PRESENTATION OF STELLAR AWARDS

Dr. James F. Reilly, II, astronaut
Joan Higginbotham, astronaut

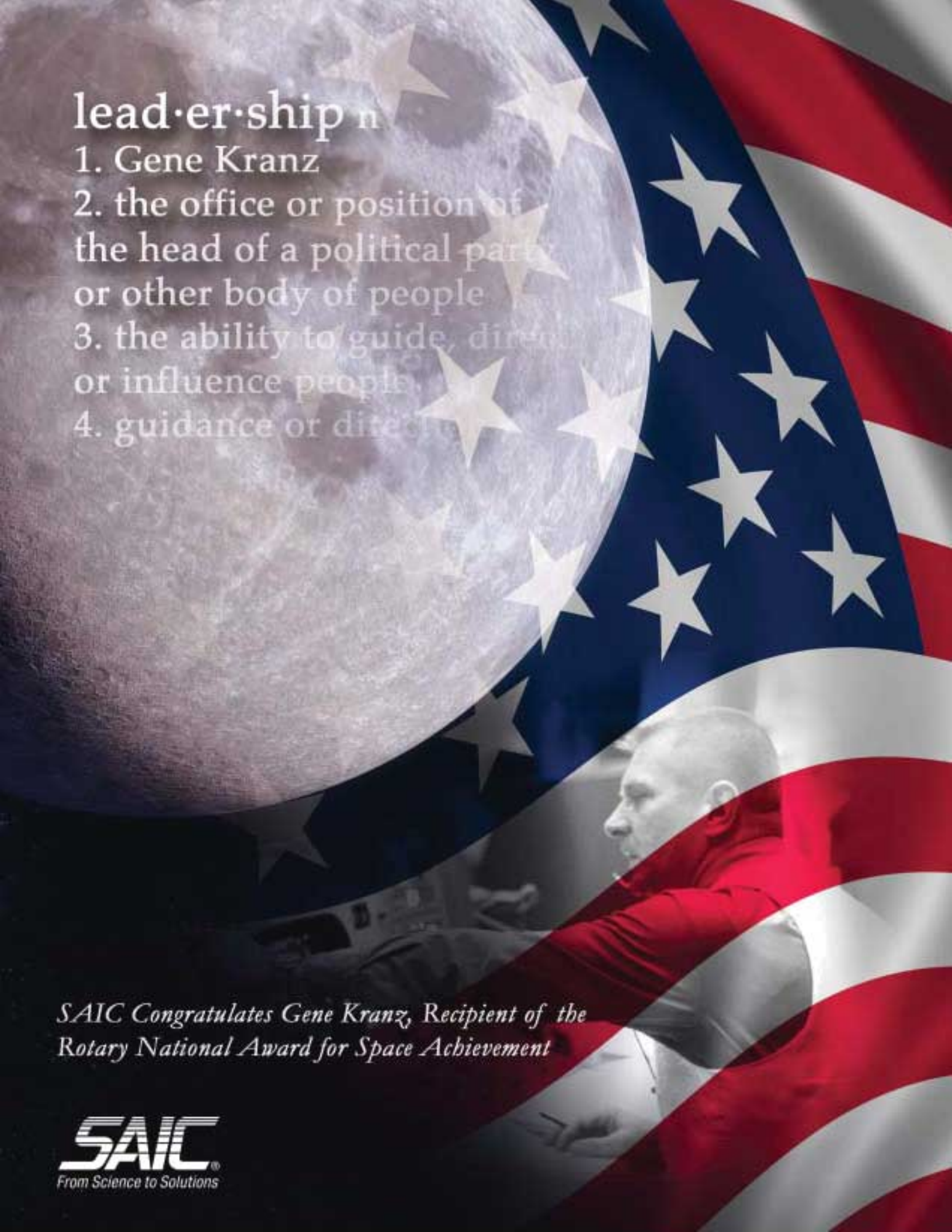
PRESENTATION OF NATIONAL SPACE TROPHY

Dr. Christopher C. Kraft, Jr.

PRESENTATION OF THE OMEGA WATCH

Lt. Gen. Thomas Stafford (Ret.)

RECOGNITION OF SPONSORS AND CLOSING



lead·er·ship n

1. Gene Kranz

2. the office or position of the head of a political party or other body of people

3. the ability to guide, direct, or influence people

4. guidance or direction

*SAIC Congratulates Gene Kranz, Recipient of the
Rotary National Award for Space Achievement*



R NASA S TELLAR A WARD N OMINEES - E ARLY



Stellar award nominations are solicited from NASA, the military, and industry leaders in human and unmanned spaceflight programs for individual and team achievements. The Early Career category is for individuals up to age 33. Winners are ranked based on which accomplishments hold the greatest promise for furthering future activities in space.

Captain Michele R. Beswick of the United States Air Force (USAF) - Leadership of the launch site integration effort on the Microsatellite Technology Experiment mission, and formulation of new mission assurance processes for the infant 45th Launch Support Squadron, which resulted in her selection as the training lead for all spacecraft programs.

Mr. Shatel S. Bhakta of The Boeing Company - Exceptional level of professional dedication, technical expertise, and leadership as the Quick Disconnect Issue Resolution Team Chair in the operation and anomaly resolution of the quick disconnects for the internal and external active thermal control system of the *International Space Station (ISS)*.

Mr. Lyndon Bridgwater of NASA Johnson Space Center (JSC) - Innovative and exemplary efforts to design and develop new robotic archetypes, enabling more effective human-robotic teams and providing viable options for complex exploration missions.

Lt Jacob L. Chisolm IV of the USAF - Outstanding leadership and exceptional dedication as the Delta II Flight Mission Lead supporting NRO operations, with a direct impact to war fighting operations and the success against the Global War on Terror.

Capt Brian M. Clifford of the USAF - Exceptional contributions as the Flight Commander for the first two Vandenberg AFB Delta IV Missions, successfully placing National Reconnaissance Office and Defense Meteorological Satellite Program (DMSP) payloads in orbit in direct support of the Global War on Terror.

Mr. Darby Cooper of The Boeing Company - Outstanding contributions to the Space Shuttle program through leadership during the development of debris analysis tools and processes to ensure safety of flight.

Mr. Robert Crouch of Pratt & Whitney Rocketdyne - Dedication and leadership in supporting safe flight of the Space Shuttle.

Mr. Joel R. Henry of ARES Corporation - Significant contributions to the development of the *ISS* probabilistic risk assessment with a high level of competency and dedication.

Mr. Joshua B. Hopkins of Lockheed Martin Space Systems Co. - Development of safe trajectories enabling Atlas V to carry commercial passengers, and authoring the *International Reference Guide to Space Launch Systems*, which has become the industry standard reference on launch vehicles.

Mr. Keith Illg of Science Applications International Corporation - Exceptional problem solving associated with the orbiter mechanical systems to ensure the safety of flight crews on STS-121 and STS-115.

Mr. Jeremy B. Jacobs of NASA JSC - Significant contributions to human spaceflight as the NASA subsystem engineer for materials and processes for the Space Shuttle orbiter.

1st Lt. Stacey N. Marzheuser of the USAF - Exceptional contributions to the launch of the first two Delta IV missions from Vandenberg AFB, successfully placing NRO and DMSP satellites into orbit in direct support of the Global War on Terror.

Mr. Peter L. McCloud of The Boeing Company - Outstanding contributions to preflight environmental control and life support system mission verification analysis, particularly in the area of improving thermal analysis techniques.

Mr. Christopher Mickey McElroy of Hamilton Sundstrand - Outstanding performance and leadership as both the lead for the EVA Logistics Group and as an EVA hardware integrator.

Mr. Michael McLennan of ATK Launch Systems - Significant contributions to the safety, quality, and reliability of the T-97 Solid Propellant Horizontal Test Facility utilized for the Space Shuttle Reusable Solid Rocket Motor full-scale full duration static test program.

Mr. Munir A. Merchant of Pratt & Whitney Rocketdyne - Performance at a level equivalent to engineers with many more years of experience, a high level of accomplishments to date, and a positive attitude.

Ms. Julie Nicaud of The Boeing Company - Outstanding leadership in the development of critical thermal protection system damage models used for orbiter flight support.

Mr. Paul Nielsen of ARES Corporation - Exceptional professional dedication and technical expertise in continuing efforts to improve the flight safety of payloads.

Mr. Christopher D. Norman of Lockheed Martin Space Systems Co. - Development of genetic algorithms for autonomous navigation, and testing of a reactor to develop oxygen from microwaving lunar regolith for in-situ resource utilization.

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R NASA S STELLAR A AWARD N OMINEES - E ARLY



Continued from previous page

Mr. Randall R. Patterson of Lockheed Martin Space Systems Co. - Development of an innovative beacon system for lunar rover navigation that uses a dual mode of radio frequencies and strobing flashes to solve the localization problem.

Mr. Matthew P. Scudder of The Boeing Company - Significant knowledge and expertise resulting in recognition by the ISS program as the ISS expert in numerous program areas, including plasma contactor units, remote power control modules, electrical power system orbital replaceable unit firmware, and NASA's Java mission evaluation workstation system data gathering and display software.


Mr. Nacer B. Thomas of Pratt & Whitney Rocketdyne - Outstanding contributions to the process improvements that enabled the RS-68 rocket engine to be consistently delivered with only one hot-fire acceptance test.

Dr. Winston B. Wang of The Boeing Company - Outstanding efforts in tools and methodology for analyzing debris trajectories and corresponding damage probabilities during shuttle ascent.

Ms. Dana J. Weigel of NASA JSC - A history of strong technical ability and leadership resulting in her selection as a flight director in 2005, where she immediately began leading Mission Control in critical activities.

Mr. David T. Westheimer of NASA JSC - Exceptional level of technical achievements and leadership in developing and advancing technologies for active thermal control systems for exploration missions.

Mr. David R. York of The Boeing Company - Outstanding contributions in resolving critical technical issues as a result of his expertise in the area of large flexible body structural dynamics, and specifically for developing a tool currently used to calculate dynamic transient loads to help ensure the safety of the ISS crew.

1st Lt. Brent D. Ziarnick of the USAF - Innovative leadership, intellectual rigor, operations excellence, and tactical innovation as a key leader in the United States space program. 

*Perot Systems and our new associates from QSS congratulate
2007 National Space Trophy Award winner
Eugene F. "Gene" Kranz
and all 2007 Stellar Award winners for
their contributions to space exploration.*

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R NASA S STELLAR A AWARD N OMINEES - M IDdle



The Middle Career category of Stellar Nominees is for individuals ages 33-50.

Mr. Ivan Berrios of The Boeing Company - Exceptional contributions in ensuring that the *International Space Station (ISS)* meets all integrated performance requirements related to assembly operations.

Mr. Blaine W. Brown of Lockheed Martin Mission Services - Exceptional leadership and technical excellence in the design and engineering of the Orion spacecraft.

Mr. Thomas E. Callinan of United Space Alliance - Unparalleled commitment to safety and mission assurance that has been extraordinarily instrumental in achieving safe and successful Space Shuttle return to flight.

Mr. Louis David Cazes of Science Applications International Corporation - Outstanding leadership, commitment, hard work and technical excellence in all phases of the Johnson Space Center (JSC) Safety and Mission Assurance enterprise contributing to safe operation of the Space Shuttle and *ISS*.

Mr. Anthony J. Ceccacci of NASA JSC - Twenty-six years of key leadership in manned space flight, spanning flight control in all phases of shuttle flight, with unparalleled depth and breadth of systems expertise and operations experience and an exemplary record leading Mission Control as a shuttle flight director.

Dr. Brian E. Crucian of Wyle Laboratories - Significant contributions to the U.S. space program to ensure astronaut safety and health by providing innovative research, methods, systems and techniques to evaluate immune function in astronauts during space flight.

Mr. Robert R. Cuadros of Pratt & Whitney Rocketdyne - Outstanding support for the advancement of rocket propulsion systems for the nation's space programs.

Ms. Joyce A. Dever of NASA Glenn Research Center - Significant and lasting contributions to the future of spaceflight through development and validation of spacecraft materials and coatings and for exemplary leadership supporting NASA's mission needs.

Ms. Kimberly B. Doering of NASA JSC - Outstanding contributions to the safe and highly successful Space Shuttle operations to continue the assembly of the *ISS* in 2005 and 2006.

Mr. Brian A. Donnelly of Pratt & Whitney Rocketdyne - Exceptional contributions and leadership in the field of

experimental stress analysis in achieving closure of a shuttle return-to-flight constraint.

Mr. Michael E. Drews of Lockheed Martin - Serving in a critical role for the guidance, navigation and control (GN&C) and spacecraft autonomy software during the outstanding flight success of XSS-11 autonomous rendezvous and proximity operations enabling future space missions.

Mr. Daniel G. Fellbaum of Pratt & Whitney Rocketdyne - Leadership and technical excellence in supporting safe flight of the Space Shuttle.

Ms. Frances Ferris of The Boeing Company - Outstanding leadership in addressing technical issues associated with Space Shuttle orbiter vehicle operations issues.

Mr. Sterling B. Fiske of The Boeing Company - Outstanding efforts in support of the shuttle integration GN&C return-to-flight analyses.

Ms. Susan Ghaneei of Qualis - Critical achievements for the NASA Marshall Space Flight Center (MSFC) Systems Engineering and Integration Team on the Crew Launch Vehicle's Upper Stage Project, and recent leadership of a team of engineers in avionics design for the vehicle.

Mr. Reynaldo J. Gomez, III, of NASA JSC - Outstanding technical leadership of all aspects related to the analysis of aerodynamic modifications and ascent debris transport environments for the Space Shuttle launch vehicle, with significant contributions to the achievement of safe human space flight.

Ms. Paula Gothreaux of ARES Corporation - Exceptional professional dedication, technical expertise, and responsibility in continuing to improve the flight safety of payloads.

Mr. David Graziosi of ILC Dover - Instrumental contributions in designing the Phase VI glove used in the current extravehicular mobility unit, as well as design concepts for future lunar suits.

Mr. John V. Hallstrom of United Space Alliance - Significant contributions within the Mission Operation Directorate's Flight Design and Dynamics Division and across other NASA organizations, with Spacecraft Trajectory and Mission Planning Simulation development efforts and analysis, and for his role as a Target Multi-Purpose Support Room console operator.

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R NASA S STELLAR A AWARD N OMINEES - M IDdle



Continued from previous page

Dr. James W. Howard, Jr. of MEI Technologies, Inc. - Exceptional leadership and technical contributions in the area of radiation engineering for spacecraft systems.

Mr. Shad Huston of The Boeing Company - Outstanding performance on the return-to-flight Orbiter Boom Sensor System assembly from Palmdale was outstanding meeting both cost and schedule in support of delivery commitments.

Mr. Scott W. Keepers of The Boeing Company - Demonstrated expertise in the areas of dimensional tolerance analyses and for conducting interchangeability analyses for over 100 ISS orbital replaceable units, earning him a high level of respect from his customers.

Mrs. Kathy Laufenberg of United Space Alliance - Exemplary leadership and outstanding technical contributions to the Space Shuttle program.

Mr. Evan I. Lee of The Boeing Company - Outstanding leadership in the development of the station/shuttle power transfer system.

Mr. Daniel J. Leonard of The Boeing Company - Outstanding performance as Chairman of the Environmental Control and Life Support (ECLS) Subsystem Problem Resolution Team leading stakeholders to resolve all problems associated with the ECLS system both in-flight aboard the ISS and with elements and systems on the ground.

Mr. Timothy G. Leonard of Pratt & Whitney Rocketdyne - Outstanding technical excellence in development and demonstration of engine throttle technology in support of space exploration upper stage and lunar lander applications.

Mr. Robert K. Levy of The Boeing Company - Significant contributions in electrical power system (EPS), operations safety and thermal areas; and recent achievements in documenting the EPS architecture, especially the development of "one-pagers," now regarded as a key element in our team members' EPS reference libraries.

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R NASA S TELLAR A WARD N OMINEES - M IDDL E



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Dr. Darwin G. Moon of The Boeing Company - Outstanding leadership, personal dedication and technical accomplishment in the development of a reinforced-carbon-carbon orbiter debris impact assessment capability.

Mr. Edward J. O'Shaughnessy of Pratt & Whitney Rocketdyne (PWR) - Outstanding leadership of the PWR Kennedy Space Center Avionics team with real time launch support to ensure safe manned spaceflight.

Ms. Tamra Ozbolt of ERC - Outstanding support to the MSFC Engineering Department Constellation monthly review.

Mr. Michael F. Piszczor, Jr. of NASA Glenn Research Center - Outstanding technical expertise and leadership in the development and implementation of advanced photovoltaic technology for space applications and exceptional personal contributions to the development and successful flight of Solar Concentrator Array with Refractive Linear Element Technology photovoltaic concentrator technology.

Mr. Martin Rodriguez, Jr. of The Boeing Company - Outstanding leadership in maintaining engineering design excellence and process rigor in all products delivered for Space Shuttle flight.

Mr. Kevin Rummell of Lockheed Martin - Systems engineering and program management leadership in the outstanding flight success of XSS-11 autonomous rendezvous and proximity operations, enabling future space missions.

Mr. Daryl J. Schuck of United Space Alliance - Instrumental contributions to the international relationship between the United States and Russia for extravehicular activity tasks.

Mr. Timothy D. Scull of Hamilton Sundstrand - Exceptional contribution to the architectural development of the new Orion crew exploration vehicle integrated ECLS system.

Mrs. Wanda A. Sigur of Lockheed Martin Space Systems Company, Michoud Operations - Outstanding leadership demonstrated during the return-to-flight effort on the Space Shuttle's External Tank program.

Mr. Christopher E. Singer of NASA MSFC - Unwavering pursuit of innovative approaches to mitigate critical debris sources from propulsion elements and enable the safe return to flight of the Space Shuttle.

Ms. Joan A. Singer of NASA MSFC - Personal dedication, leadership, and organizational contributions to Space Shuttle operations and the success of Human Space Flight.

Mr. Carson W. Sparks of United Space Alliance - Service as a lead engineer for the Mission Operations Directorate's Flight Design and Dynamics division's Ascent/Entry Flight Dynamics unit, with significant contributions to safety of flight.


Ms. Emily R. Strickler of NASA JSC - Significant technical contributions to NASA's human space flight programs by managing the development of flight software and software engineering processes

Mr. Mark D. Thomas of ATK Launch Systems - Significant contributions to improving the safety, quality, and reliability of the Space Shuttle system through the development and testing new low-temperature-capable o-ring seal material.

Mr. Steve W. Tollefson of Hamilton Sundstrand - Exceptional engineering leadership and sound technical judgment for the Space Shuttle auxiliary power units and mechanical flight controls throughout return-to-flight.

Mr. Stephen Vrana of GHG - Outstanding performance, initiative, and leadership in his role as an ISS safety and mission assurance subsystem engineer.

Mr. Robert D. Wilkes, Jr. of Jacobs Technology, Inc. - Excellence in engineering design and hardware development for on-orbit extravehicular repair of the Space Shuttle orbiter thermal protection system.

Dr. Laura Wurth of ATK Launch Systems - Exemplary contributions to the flight safety and environmental compliance of the Space Shuttle with a consistent record of outstanding work output. 



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



P REVIOUS S TELLAR W INNERS



2006
Early-Career
winners

NASA photo

L to R: David Nordling (Pratt & Whitney), Joseph Arves (Lockheed Martin), Ms. Graham (accepting for Patricia Schmidt of Boeing), Brian Krolczyk (USA), Jeremy Hemler (ATK), Darby Vicker (NASA-JSC), Astronaut James Reilly, II, presenting.



2006
Middle-Career
winners

NASA photo

L to R: Casey Adams (Boeing), Steve Poulos, Jr. (NASA-JSC), Craig Clokey (USA), Edward Collins, Jr. (ATK), Daniel Smith (Lockheed Martin), Astronaut James Reilly, II, presenting.



R NASA S STELLAR A AWARD N OMINEES - L LATE



The Late Career category of Stellar Nominees is for individuals over age 50.

Mr. Gordon F. Allen of Hamilton Sundstrand - Exceptional leadership and technical contributions in systems analysis and performance for the extravehicular mobility unit, shuttle, and *International Space Station (ISS)* environmental and life support (ECLS) system and thermal control systems.

Mr. Eugene J. Beckett of United Space Alliance - Outstanding dedication and extraordinary contributions to the management of human spaceflight from Apollo to Space Shuttle programs

Mr. Terry Boardman of ATK Launch Systems - Lifetime achievement for 30 years of exceptional vision, innovation and dedication in rocket motor technology development and engineering leadership on the Space Shuttle program.

Mr. Dan C Brandenstein of Lockheed Martin - Lifetime contributions to the advancement of space exploration and human space flight, with an outstanding career serving as a naval aviator, astronaut, pilot and commander of four Space Shuttle missions, corporate executive and program manager for the NASA Mission Support Operations Contract, and leading visionary safety advocacy and educational outreach initiatives.

Mr. Glenn M. Ecord of NASA Johnson Space Center (JSC) - Setting up fracture control methodology for human spaceflight hardware that has allowed for the improved design of space vehicles and components and is utilized internationally.

Mr. David A. Fox of Hamilton Sundstrand - Innovation in the design and development of efficient electrical converters and switchgear for power management and distribution on the Space Shuttle orbiter and *ISS*, and now on the Orion crew exploration vehicle electrical system.

Mr. John E. Hutchins of United Space Alliance - Outstanding navigation expertise and leadership for the Shuttle and Apollo programs for over 40 years in critical navigation onboard computer flight software and for the Global Positioning System Navigation project.

Mr. Kauser Imtiaz of The Boeing Company - Broad knowledge in the area of structural analysis and use of that knowledge and experience to resolve a variety of complex structural integrity issues

Mr. Paul T. Johnson of The Boeing Company - Serving in a principal role as the designated *ISS* representative to the Payload Safety Review Panel and for leading the development of the standards by which the panel evaluates payloads controls for fire safety.

Mr. Ferdinand P. Jones of Pratt & Whitney Rocketdyne - Exceptional contributions in the development of advanced health management, support of launch operations and leadership in

flight, and test and integration of the Space Shuttle main engines to ensure flight safety and mission success.

Mr. James W. Kennedy of NASA Kennedy Space Center - Outstanding leadership and technical direction of NASA's pioneering space endeavors and the Vision for Space Exploration (VSE).

Dr. Steven L. Koontz of NASA JSC - Significant achievements in flight systems environments and their effect on materials and spacecraft.

Mr. Tommie C. Lacefield of Lockheed Martin Space Systems - Demonstrated excellence in furthering the future of space throughout a career at the Navy, NASA, and most recently as Lockheed Martin Project Orion Program Manager.

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FOUNDATIONS OF MISSION CONTROL*

To instill within ourselves these qualities essential for professional excellence:

Discipline, being able to follow as well as lead, knowing that we must master ourselves before we can master our task.

Competence, there being no substitute for total preparation and complete dedication, for space will not tolerate the careless or indifferent.

Confidence, believing in ourselves as well as others, knowing that we must master fear and hesitation before we can succeed.

Responsibility, realizing that it cannot be shifted to others, for it belongs to each of us; we must answer for what we do, or fail to do.

Toughness, taking a stand when we must; to try again, and again even if it means following a more difficult path.

Teamwork, respecting and utilizing the ability of others, realizing that we work toward a common goal, for success depends on the efforts of all.

To always be aware that suddenly and unexpectedly we may find ourselves in a role where our performance has ultimate consequences.

To recognize that the greatest error is not to have tried and failed, but that in trying, we did not give it our best effort.

*Kranz, Gene, *Failure is Not an Option*, New York: Simon & Schuster, 2000.

NASA photo



R NASA S STELLAR A AWARD N OMINEES - L LATE



Continued from previous page

Dr. Chiu-Wing Lam of Wyle Laboratories - Significant contributions to inhalation toxicology research, including landmark work in nanomaterial toxicity and current work in lunar dust exposure, which is fundamental to astronaut health and safety by establishing exposure limits for contaminants in spacecraft atmospheres and for lunar and Mars surface operations.

Mr. Jack D. Leavitt of ATK Launch Systems - Lifetime achievement for 30 years of leadership in the manufacture of Space Shuttle reusable solid rocket motors, ensuring safe operations while producing the highest quality components meeting all customer requirements.

Mr. William S. Mitchell of Pratt & Whitney Rocketdyne - Outstanding technical excellence and leadership throughout design, development, and flight support of the Space Shuttle main engine alternate turbopumps.

Mr. Duc G. Nguyen of Pratt & Whitney Rocketdyne - Decades of outstanding propulsion system modeling and optimization including the orbit transfer vehicle engine, national launch system engines, X-33 aerospike, and the VSE J-2X engine.

Mr. Paul W. Phillips of the United States Air Force - Over two decades of innovative hypersonic flight test and analysis, from the Space Shuttle to the X-37B, while mentoring generations of new flight testers.

Mr. Brian G. Russell of ATK Launch Systems - Lifetime achievement in technical and operational leadership roles supporting solid rocket motor (SRM) and reusable SRM over a 29 year time span from the inception of the Space Shuttle program.

Mr. Robert T. Savely of NASA JSC - Extended, exemplary career advancing technology and furthering NASA's critical interests in software, robotics, and navigation systems, affecting space missions from Apollo through the return to the Moon.

Mr. Gerald D. Sheehan of The Boeing Company - Valuable and critical contributions to the sustaining engineering and modification support of the Space Shuttle orbiter since STS-1.

Mr. James R. Stephens of NASA Marshall Space Flight Center - Significant contributions in the area of thermal vacuum and simulated space environmental testing that addresses the performance characteristics of hardware and systems in the harsh environments of space.

Mr. Lawrence G. Tanner of Pratt & Whitney Rocketdyne - Outstanding technical excellence and partnership with Russian counterparts throughout development, production, and flight support of the RD-180 booster engine for the Atlas launch vehicle.

Mr. Wayne H. Tuttle of Hamilton Sundstrand Space, Land & Sea Long Beach - Significant technical achievements and quality assurance in support of welding applications for critical space flight hardware.

Mr. Sagar N. Vidyasagar of Lockheed Martin - Over 30 years of outstanding technical leadership contributions to human space flight, including the Space Shuttle and *ISS*, in the field of engineering analysis.

Mr. Jerald Warren of The Boeing Company - Outstanding leadership in addressing technical issues associated with Space Shuttle orbiter structural systems.

Mr. Dennis J. Webb of NASA JSC - Exceptional level of initiative and leadership over many years while effectively and efficiently applying mission operations core competencies in defining operations concepts, requirements management, and technical approaches during the formulation and development stages of the *International Space Station* and Constellation programs.

Mr. Walter V. Wood of United Space Alliance - Outstanding support to the safe and successful Space Shuttle return to flight. ☺

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P REVIOUS S TELLAR W INNERS



**2006
Late-
Career
winners**

NASA photo

L to R: Mr. Camarda (for Ying Ming Kuo of NASA-JSC), Bohdan Bejmuk (Boeing), Mrs. Mott (for Mike Mott, deceased, of Boeing), Leonard Nicholson (Boeing), Amitabha DebChaudhury (Pratt & Whitney), Astronaut Joan Higginbotham, presenting.



**2006
Team
winners**

NASA photo

L to R: Robert Aaron for Water Processor Assembly and Oxygen Generator Assembly Team of Hamilton Sunstrand, Martin Davis of Geostationary Operational Environmental Satellite N-P Management Team of NASA Goddard, Jason Altchek of Wargame Team of the USAF, Dale Howell of Mars Global Surveyor Team of Lockheed Martin, Keyur Patel of JPL and Monte Henderson of Ball Aerospace for Deep Impact Mission Team, Mr. Skytland and Sudhakar Rajulu of NASA-JSC for Anthropometry and Biomechanics Facility/Neutral Buoyancy Laboratory Weigh-out Team, Astronaut James Reilly, II, presenting.



R NASA S STELLAR A AWARD N OMINEES - T TEAM



Rodolfo Gonzalez, Jennifer Mitchell and Shelly Baccus coordinated the 2007 Stellar Award nomination process.

1st Space Operations Squadron of the United States Air Force (USAF)- Unquestionable leadership in providing global combat effects through innovative space technologies, and for recognized leadership in launch, on-orbit, emergency, end-of-life testing and disposal operations spanning four different satellite systems.

2nd Space Operations Squadron of the USAF - Outstanding efforts and dedication in maintaining, sustaining, modernizing, and operating the Global Positioning System constellation.

Analytical Logistics and Reliability Team of Booz Allen & Hamilton - Outstanding focus on a re-examination of the *International Space Station's Logistics and Maintenance Support Plan*, which is critical to the success of the *International Space Station (ISS)* Program.

Backup Flight System Verification Team of The Boeing Company - Outstanding efforts to complete the on-time verification of Space Shuttle backup flight system software in preparation for delivery to NASA for future Space Shuttle missions.

Configuration Management Process Mapping Team of SPACEHAB, Inc. - Outstanding achievement in the development of detailed process mapping, including several intricate *ISS* configuration management processes that touch all NASA programs and international partner agencies.

Constellation Design Analysis Working Group Facilitation Team of Jacobs - Excellence in the development of the detailed plan for the crew launch vehicle design analysis cycle-2.

Constellation Program Review Item Discrepancy Tool Development Team of NASA Johnson Space Center (JSC) - Exemplary performance of the Constellation Program Review Item Discrepancy Tool team, whose participants were geographically distributed, including multiple NASA centers and multiple companies, proving the feasibility and value of virtual teams.

Defense Satellite Communications System Operations Support Team of the USAF, 3rd Space Operations Squadron - Outstanding leadership, management, innovation, and technical skills which were critical to the identification and resolution of the Squadron's top concerns related to fuel management, station keeping, and automation for the defense satellite communications system constellation, resulting in the satellite life extension and potential to significantly reduce crew workload and manning.

Earth Science Story Development Team of NASA Goddard Space Flight Center - Exceptional achievement in science communication by integrating world-class science data visualization, animation, science writing and advanced video production techniques into a wide spectrum of state-of-the-art venues such as *Science on a Sphere*, planetariums, and television documentaries.

Education and Outreach Program Team of the National Space Biomedical Research Institute - Performance as a nationally recognized, top-tier program that is pioneering new models for exemplary teaching, training and public outreach, in support of the Vision for Space Exploration.

End-to-End Uncertainty Assessment Team of ARES Corporation - Outstanding support in a critical role for analyses of confidence levels related to debris impacts for safe shuttle entry.

GOES-R Jitter Mitigation Development Team of Lockheed Martin Commercial Space Systems - Developing creative approaches to jitter mitigation on geosynchronous Earth orbit Earth-observing spacecraft, allowing enhanced data availability and improved mission data integrity.

Goodrich 787 Inner Fixed Structure Development Team of Lockheed Martin Space Systems Company – Michoud Operations - Exemplary dedication to the Goodrich 787 Inner Fixed Structure program, enabling the National Center for Advanced Manufacturing (NCAM) to output several engineering development articles that were critical to the success of the Goodrich/Boeing 787 nacelle program, giving Goodrich, Lockheed Martin, and NCAM dominance in advanced fiber placement on complex aerospace parts.

Great Lakes Environmental Science Mission Team of NASA Glenn Research Center - Significant and sustained NASA-NOAA Team performance to develop an advance mobile sensor platform for hyperspectral imaging of environmental phenomena in the Great Lakes.

High Power Ka-band Traveling-Wave Tube for Deep Space Communications Team of NASA Glenn Research Center - Outstanding technical leadership, design, development, fabrication, and testing of high power high efficiency traveling-wave tube amplifier for deep space communications.

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R NASA S STELLAR A AWARD N NOMINEES - T TEAM



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In-Space Propulsion Technology Project Team of NASA Marshall Space Flight Center - For development and demonstration of new in-space propulsion technologies for robotic science missions.

ISS Flight Control Room Development Team of Lockheed Martin - Exceptional effort to design, develop and deliver a new flight control room for monitoring and control of the *ISS* under severe schedule and budget constraints.

ISS Flight Software Team of The Boeing Company - Outstanding dedication and performance in reaching *ISS* assembly complete functionality, including providing on-orbit software to six-sigma level quality and gaining Software Engineering Institute certification to Capability Maturity Model Integration Level 5.

ISS Guidance, Navigation, and Control Team of The Boeing Company - Outstanding performance in overcoming serious threats to the *ISS* guidance, navigation and control system after the *Columbia* tragedy, most especially developing solutions for the control moment gyroscope, supporting shuttle return-to-flight, and resumption of *ISS* assembly.

ISS Internal Wireless Instrumentation System Power Cable Team of United Space Alliance - Successful fabrication of a prototype and four flight Internal Wireless Instrumentation System (IWIS) cables to support STS-121 in less than eight weeks, to allow crew members to eliminate toxic IWIS batteries.

ISS Trailing Umbilical System Reel Assembly Launch and Activation Engineering Team of The Boeing Company - Outstanding contributions in conquering significant Trailing Umbilical System Reel Assembly (TUS RA) issues, including preparing the spare TUS RA for flight, conducting launch and landing analyses, and planning the execution of an EVA that would eventually remove and replace this critical equipment.

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

Liquid Hydrogen Flowliner Snip Team of United Space Alliance - Exceptional success in complete problem resolution, design, development, integration, and implementation of the "Snip" tool to remove the main propulsion system liquid hydrogen mid-bellows feedline flowliner defect; the tool mitigated the likelihood of a metallic particle being ingested directly in the low pressure

fuel pump of the shuttle main engine possibly causing loss of crew and vehicle.

Major Constituent Analyzer Team of Hamilton Sundstrand - Design and development of a repair procedure to be used on-orbit to return a critical *ISS* instrument to full operation.

Mars Reconnaissance Orbiter Development and Operations team of NASA Jet Propulsion Laboratory - Successful development, launch, and operations of the Mars Reconnaissance Orbiter, which is conducting remote sensing and world class science of the planet Mars.

Milstar Messaging Application 1.0 Team of the United States Air Force, MILSATCOM Directorate of Logistics - Exceptional dedication, innovation, and technical excellence in the development, testing and fielding of Milstar messaging application software.

Mission Analysis and Integration Team of Booz Allen Hamilton & ARES Corporation - Outstanding technical expertise, analysis and integration efforts in developing a tool suite and comprehensive strategy for *ISS* solar array management that ensures reboost propellant requirements are minimized while meeting energy needs on a stage-by-stage basis throughout the *ISS* assembly period.

Mission Control Center System Local Area Network Equipment Replacement Team of Lockheed Martin - Successful replacement of the Mission Control Center and integrated planning system network infrastructures while minimizing impacts to *ISS* and Space Shuttle operations

Nanotube Research and Development Team of ERC Inc. - Exceptional dedication, hard work, and technical excellence in furthering the understanding of nanomaterials and their application to fuel cells, lightweight composites, and carbon dioxide removal systems.

Orbiting Carbon Observatory Instrument Team of Hamilton Sundstrand - Design and development of a state-of-the-art three-spectrometer instrument to measure atmospheric carbon dioxide to study the global sources and sinks of the greenhouse gas.

P3/P4 Launch Activation Engineering Team of The Boeing Company - Outstanding efforts in ensuring that the P3/P4 truss, after grounding of the shuttle, was successfully maintained, reassembled and closed out for flight, subsequently yielding flawless operation of all systems.

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R NASA S STELLAR A AWARD N OMINEES - T EAM



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Power Transfer Unit Design and Manufacturing Team of Hamilton Sundstrand/SLS-Rocketdyne - Outstanding technical excellence in designing and building the power transfer unit, which will allow the transfer of electrical power from the *ISS* to a docked Space Shuttle.

Rigid Insulation Development Team of The Boeing Company - Excellence in the design, development, certification and rapid delivery of hardware that allowed significant hardening of the orbiter thermal protection system.

Russian Elektron Oxygen Generating Unit Integration and Return Team of SPACEHAB, Inc. - Exemplary responsiveness in meeting the *ISS* program's fast turnaround request to manifest and return the failed on-orbit Elektron unit, on SPACEHAB's Logistics Single Module during the STS-116 mission.

Space Common Operating Picture and Exploitation Systems (SCOPES) Team of the USAF - Outstanding support to space operators by providing current space situational awareness and reentry object impact prediction using SCOPES, a comprehensive modeling and simulation tool that uses live data feeds for optimum accuracy.

Space Shuttle Main Engine High Pressure Oxidizer Turbopump Rotor Vibration Investigation Team of Pratt & Whitney Rocketdyne - Successful minimization of the rotor unbalance variation that was causing turbopump acceptance test failures, with zero failures since problem resolution.

Space Shuttle Main Engine Nozzle Thermography Team of Pratt & Whitney Rocketdyne - Outstanding technical development and innovation in non-destructive evaluation leak detection methods leading to operational availability of critical Space Shuttle main engine nozzles.

Space Video Return-to-Flight Team of Lockheed Martin - Exceptional knowledge, leadership, dedication and perseverance which were instrumental for completing the fabrication and certification of the generic pan tilt unit to support the Space Shuttle's return-to-flight missions.

Stardust Flight and Recovery Team of NASA Jet Propulsion Laboratory - Exceptional achievement during its historic seven-year planetary space flight to bring to Earth samples of primordial material from a cometary nucleus, unchanged since the birth of our solar system 4.6 billion years ago, enabling study of the origin and evolution of our solar system and life on Earth.

Thermal Protection System Engineering Team of United Space Alliance - Tireless efforts to recover from the *Columbia* accident and continuing to ensure that the orbiter's thermal protection system is safe to fly.

Universal Friction Stir Weld Machine Development Team of Lockheed Martin Space Systems Company – Michoud Operations - Demonstrated exceptional accomplishments in the procurement, installation, test and demonstration of the world's largest and most capable friction stir weld machine.

Thermal Protection System Engineering Team of United Space Alliance - Tireless efforts to recover from the *Columbia* accident and continuing to ensure that the orbiter's thermal protection system is safe to fly.

USAF/Federal Aviation Administration Common Standards Working Group of the USAF - An inter-agency ten-year effort to produce the first-ever common national launch safety requirements, applicable for all Department of Defense, civil and commercial space flight.

X-37 Approach and Landing Test Vehicle Flight Test Team of the USAF, Space Development and Test Wing - Providing exceptional leadership and technical expertise to the highly successful flight testing of a reusable and autonomous orbital vehicle landing system, verifying key guidance technologies.

XSS-11 Proximity Operations Mission Team of the USAF: Strategic Command Joint Functional Component Command for Space - Exceptional contributions to military space superiority through the conduct of autonomous rendezvous and proximity operations with the XSS-11 satellite.

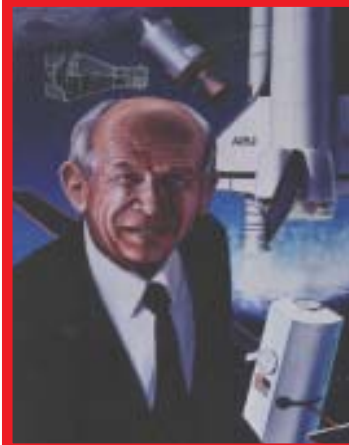


The Apollo 13 team celebrates in April 1970.

NASA photo



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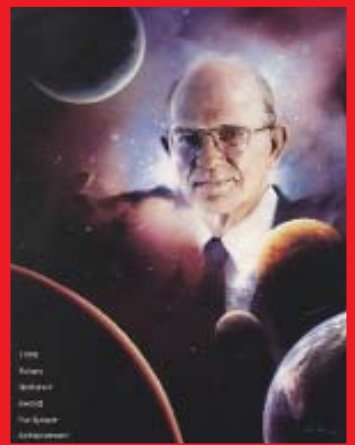
1987
Dr. Maxime Faget



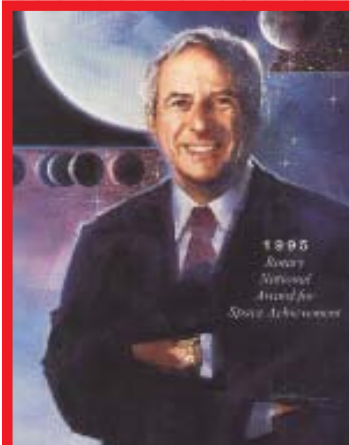
1988
Hon. Don Fuqua



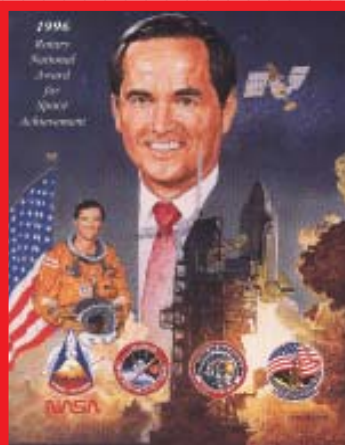
1989
Richard Truly



1990
Dr. Lew Allen



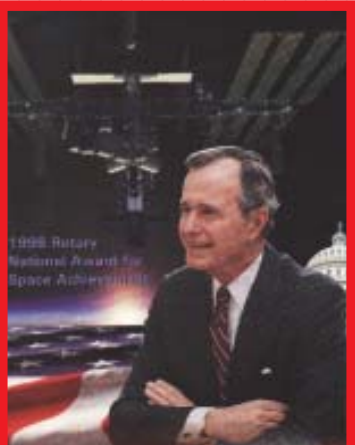
1995
Daniel Goldin



1996
Robert L. Crippen



1997
George W. S. Abbey



1998
Pres. George H. W. Bush



2003
Roy S. Estess



2004
Neil A. Armstrong



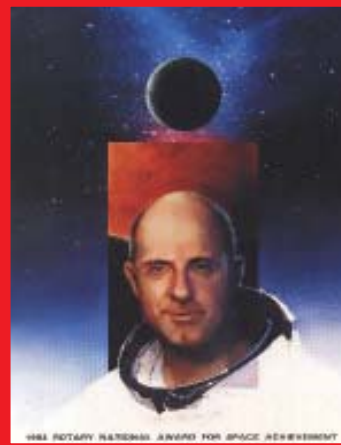
2005
Dr. Glynn S. Lunney



2006
Eileen Collins



P REVIOUS S PACE T ROPHY W INNERS



1991

Dr. Aaron Cohen

1992

Dr. Norman R. Augustine

1993

Thomas Stafford

1994

Edward "Pete" Aldridge, Jr.



1999

Dr. Christopher C. Kraft, Jr.

2000

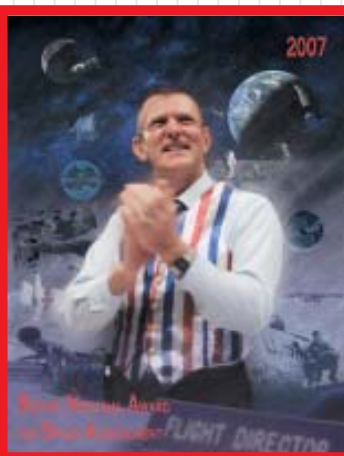
John W. Young

2001


Tommy Holloway

2002

Dr. George E. Mueller



About the 2007 Cover

Renowned space artist Pat Rawlings created the 2007 cover portrait of Gene Kranz. Employed by SAIC, Rawlings also painted the 1987, 1991 and 2001-06 covers. His art appears in the SAIC annual calendars, in major space and scientific publications, and broadcast media around the world. 

2007

Eugene F. (Gene) Kranz



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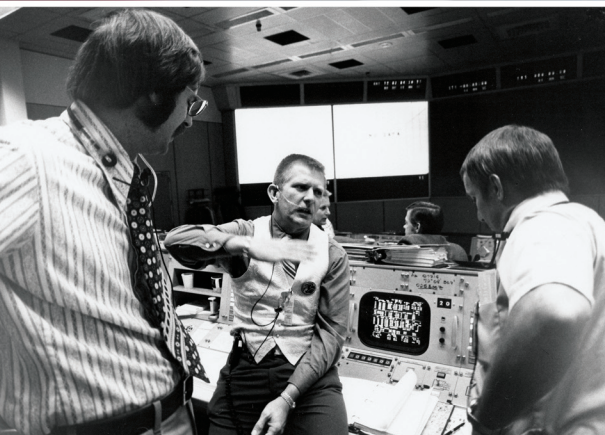
George W. S. Abbey
 Jim Albaugh
 Arnold D. Aldrich
 Edward C. "Pete" Aldridge, Jr.
 Dr. Lew Allen
 Neil A. Armstrong
 Jim Asker
 Dr. Norman R. Augustine
 Dr. Donald J. Campbell
 Jeffrey Carr
 Mark Carreau
 Capt. Eugene Cernan, USN (Ret.)
 Capt. Michael L. Coats, USN (Ret.)
 Dr. Aaron Cohen
 Col. Eileen Collins, USAF (Ret.)
 Col. Richard O. Covey, USAF (Ret.)
 Capt. Robert Crippen, USN (Ret.)
 Capt. Frank L. Culbertson, Jr., USN (Ret.)
 Robert Dickman
 Ronald D. Dittmore
 Maj. Gen. Joe H. Engle, ANG (Ret.)
 Roy S. Estess
 Hon. Donald Fuqua
 William H. Gerstenmaier
 Hon. John H. Glenn, Jr.
 Dr. Gerald D. Griffin
 Henry W. Hartsfield, Jr.
 Jim Hartz
 Cynthia Hendershot
 Shepard W. Hill
 Tommy W. Holloway

Neil B. Hutchinson
 Hon. Kay Bailey Hutchison
 Sandra G. Johnson
 John C. Karas
 Dr. Joseph P. Kerwin
 Dr. Christopher C. Kraft, Jr.
 Eugene F. Kranz
 Debbie Kropp
 Dr. Glynn S. Lunney
 Robert T. McCall
 Capt. Michael J. McCulley, USN (Ret.)
 Dr. George E. Mueller
 Miles O'Brien
 William W. Parsons
 Thomas B. Pickens, III
 Elliot G. Pulham
 William F. Readdy
 Capt. Kenneth S. Reightler, Jr. USN (Ret.)
 Hon. Harrison H. Schmitt
 Col. Brewster H. Shaw, USAF (Ret.)
 Tom W. Short
 Lt. Gen. Thomas P. Stafford, USAF (Ret.)
 Dr. William A. Staples
 Richard (Rick) D. Stephens
 Randy Stone
 V. Adm. Richard H. Truly, USN (Ret.)
 Dr. William Vantine
 S. John Wilkins
 Byron K. Wood
 Capt. John Young, USN (Ret.)



The Board of Advisors elects the annual National Space Trophy winners.

The National Space Trophy, a seven-foot, 500-pound lead crystal sculpture designed by Steuben Glass of New York is on permanent display at Space Center Houston.



FROM LIFTOFF TO LANDING...

United Space Alliance salutes Gene Kranz for his renowned contributions to our country's greatest endeavors and his leadership that continues to inspire generations of explorers.





Lockheed Martin congratulates
Eugene F. "Gene" Kranz

2007 RNASA Space Trophy Winner

...and all of the 2007 Stellar Award Winners