



Pat Rawlings '01

2001

Rotary National Award
For Space Achievement



Tommy Holloway

National Space Trophy Recipient

Throughout his long and distinguished career, Tommy W. Holloway has made major contributions to human space flight. A veteran engineer, an expert in flight activities and planning, and a senior NASA manager, he has left his mark on the Mercury, Gemini, Apollo, Skylab, Space Shuttle and Space Station programs.



As manager of the International Space Station Program, Mr. Holloway is leading the most complex engineering and scientific space project ever attempted. He directs all aspects of the International Space Station design, development, test and operations. Mr. Holloway manages an annual budget of \$2.3 billion, leads the activities of a multidisciplinary workforce of about 20,000 civil servants and contractor personnel across the United States and coordinates the activities of NASA's 16 International Partners.

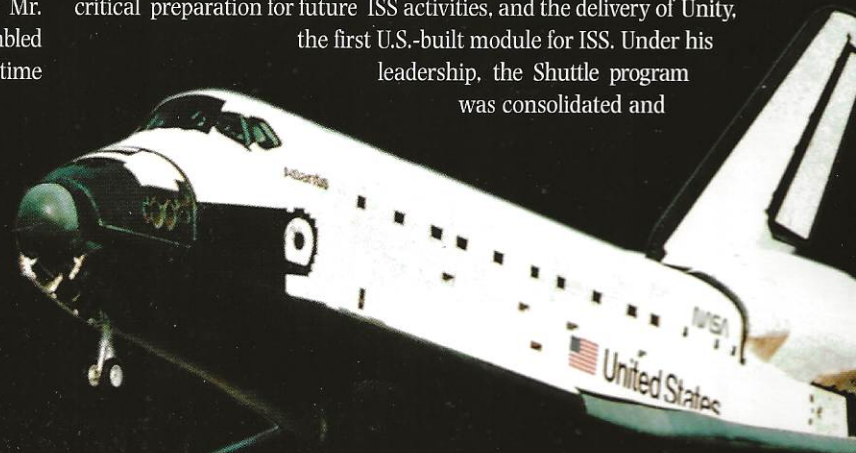
His responsibilities include the integration and delivery of elements that will use six different launch vehicles in four countries. Under Mr. Holloway's leadership, the program has successfully launched and assembled several key infrastructure components and welcomed the first full-time resident crew to orbit.

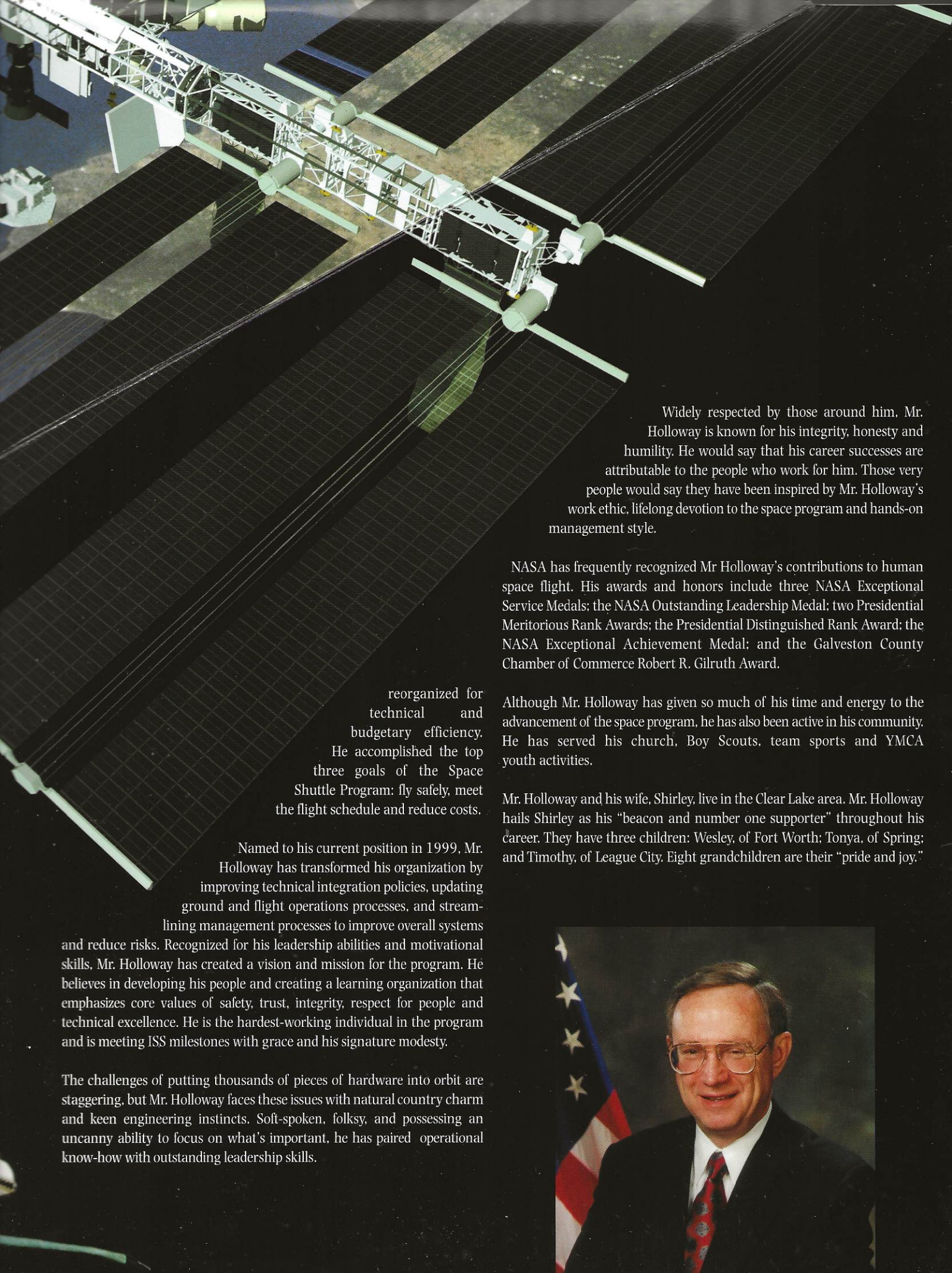
Mr. Holloway began his remarkable four-decade career after earning his bachelor's degree in mechanical engineering from the University of Arkansas. He joined NASA as a flight planner in Project Mercury in 1963. Later, he created flight plans, flight data file processes and flight crew procedures critical to the success of the Gemini and Apollo Programs.

In 1978, Mr. Holloway was named a Space Shuttle Flight Director, where he helped to resolve critical orbit and ascent flight operation issues and ensure the success of the initial shuttle flights. Selected as Chief of the Flight Director Office in 1984, he guided all aspects of Shuttle flight operations. After the Challenger accident, he headed an investigation of mission planning and operations analysis activities and led the revision, updating, and validation of all flight rules, mission documentation and launch commit criteria — all crucial to the Shuttle's highly successful return to flight.

As Deputy Manager for Program Integration for the Space Shuttle Program and later as Manager of the Shuttle-Mir Phase One Program, Mr. Holloway implemented a first-of-its-kind partnership between the U.S. and Russian Space Agencies. This partnership gave NASA the experience and expertise to assemble and operate the ISS. His leadership was the cornerstone to the historic first docking of the Space Shuttle to Mir in July 1995. The mission laid the groundwork for the success of all subsequent Shuttle-Mir missions.

In 1995, Mr. Holloway was asked to lead the Space Shuttle Program as Program Manager. He directed 23 safe and successful Shuttle missions, resulting in solid scientific study, groundbreaking satellite repairs, critical preparation for future ISS activities, and the delivery of Unity, the first U.S.-built module for ISS. Under his leadership, the Shuttle program was consolidated and





Widely respected by those around him, Mr. Holloway is known for his integrity, honesty and humility. He would say that his career successes are attributable to the people who work for him. Those very people would say they have been inspired by Mr. Holloway's work ethic, lifelong devotion to the space program and hands-on management style.

NASA has frequently recognized Mr. Holloway's contributions to human space flight. His awards and honors include three NASA Exceptional Service Medals; the NASA Outstanding Leadership Medal; two Presidential Meritorious Rank Awards; the Presidential Distinguished Rank Award; the NASA Exceptional Achievement Medal; and the Galveston County Chamber of Commerce Robert R. Gilruth Award.

reorganized for technical and budgetary efficiency. He accomplished the top three goals of the Space Shuttle Program: fly safely, meet the flight schedule and reduce costs.

Although Mr. Holloway has given so much of his time and energy to the advancement of the space program, he has also been active in his community. He has served his church, Boy Scouts, team sports and YMCA youth activities.

Mr. Holloway and his wife, Shirley, live in the Clear Lake area. Mr. Holloway hails Shirley as his "beacon and number one supporter" throughout his career. They have three children: Wesley, of Fort Worth; Tonya, of Spring; and Timothy, of League City. Eight grandchildren are their "pride and joy."

Named to his current position in 1999, Mr. Holloway has transformed his organization by improving technical integration policies, updating ground and flight operations processes, and streamlining management processes to improve overall systems and reduce risks. Recognized for his leadership abilities and motivational skills, Mr. Holloway has created a vision and mission for the program. He believes in developing his people and creating a learning organization that emphasizes core values of safety, trust, integrity, respect for people and technical excellence. He is the hardest-working individual in the program and is meeting ISS milestones with grace and his signature modesty.

The challenges of putting thousands of pieces of hardware into orbit are staggering, but Mr. Holloway faces these issues with natural country charm and keen engineering instincts. Soft-spoken, folksy, and possessing an uncanny ability to focus on what's important, he has paired operational know-how with outstanding leadership skills.



Awards Banquet

Fifteenth Annual

2001 Rotary National Award for Space Achievement Awards Banquet

Friday, March 2, 2001

6:00

RECEPTION

6:50 Guests relocate to IMAX Theater

7:00

VIDEO OPENING

WELCOME

Clay Fulcher
Chairman, RNASA Foundation

PRESENTATION OF COLORS

U.S. Naval Reserve

NATIONAL ANTHEM

Jerome Bourgeois

MASTER OF CEREMONIES

Steve Smith
Former News Anchor, Channel 11, KHOU-TV

TRIBUTE TO

Dr. Robert R. Gilruth

PRESENTATION OF PROCLAMATION

Mayor Lee P. Brown

PRESENTATION OF THE STELLAR AWARDS

Astronauts Dr. Franklin Chang-Diaz and Lt. Col. Pamela Melroy

PRESENTATION OF THE NATIONAL SPACE TROPHY

John W. O'Neill

CLOSING OF PROGRAM/RECOGNITIONS

DINNER

Guests relocate to the Astronaut Gallery for dinner

INVOCATION

Dr. David Fannin
Senior Pastor, Nassau Bay Baptist Church



Leadership.

Knowledge.

Integrity.

Congratulations Tommy Holloway!
Continually exemplifying core qualities of excellence.

A R E S
CORPORATION

www.arescorporation.com

Steve Smith

Master Of Ceremonies



Media Consultant

Steve Smith has been a familiar face and a trusted journalist in Houston for more than three decades. During his 23 years at KHOU-TV, Mr. Smith anchored as many as three daily newscasts. Either in the studio or on the scene, the Indiana native covered every major news story since the '60s. His job has taken him to every corner of the globe.

Mr. Smith's love of the news business began at the University of Indiana. While juggling his journalism classes and responsibilities in the ROTC program, he held part-time jobs at radio stations. After graduating in 1962, Mr. Smith was commissioned in the U.S. Army and served as an intelligence officer for two years.

Mr. Smith then returned to journalism, working for television stations in Indiana and Michigan. A vacation trip to Houston led to a job offer from KPRC-TV in 1966. Mr. Smith anchored, wrote and produced the two evening newscasts for Channel 2 until he took a job with a Pittsburgh station in 1973. He returned to Houston in 1976, anchoring for KHOU-TV. For 10 years, he also hosted Channel 11's Sunday morning public affairs program, "Steve Smith's Sunday."

After retiring from daily television in 1999, Mr. Smith formed a media consulting firm, Anchor Communications. His clients include Moody Gardens, the Port of Houston Authority and the Johnson Space Center.

Mr. Smith and NASA go back a long, long way. He tells this story of covering the early days of the Apollo program:

"When the first Moon walkers came home, they were brought back to Houston and kept in those mobile quarantine trailers for a while. No one was sure if they might be harboring any dangerous "Moon bugs."

"As anchorman at Channel 2, I was assigned to cover their arrival, live, at Ellington Field, then Ellington Air Force Base. They invariably arrived later than scheduled — often hours later.

"My job was to fill the air time. We interviewed anybody and everybody who would talk while we waited ... NASA executives, other astronauts, family members, people in the crowd, you name it. When we ran out of interview subjects, we anchors and reporters talked to each other. The size of the crowd, the temperature, the distance from Ellington to what was then the Manned Spacecraft Center ... about the only thing we didn't talk about was the consistency of the concrete on the runway. And in hindsight, I wish I had thought of that.

John W. O'Neill

The National Space
Trophy Presenter

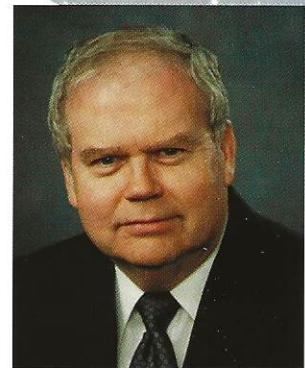
John O'Neill will present the 2001 Rotary National Award for Space Achievement to his longtime friend and colleague, Tommy Holloway. Like Mr. Holloway, Mr. O'Neill has made innumerable contributions to the space program.

Mr. O'Neill began his 34-year NASA career in 1963 as head of the Thermo-Mechanical section of the Flight Crew Support Division. It was the first of many leadership positions for Mr. O'Neill. Through the Gemini, Apollo, Skylab, Space Shuttle and International Space Station Programs, he played an increasingly responsible role in the endeavor of human space flight. He has been a key component of operations planning and development, utilizing his engineering and leadership skills in the Crew Procedures Division, the Flight Control Division, the Flight Operations Directorate and the Mission Operations Directorate.

In 1994, Mr. O'Neill was named Director of the Mission Operations Directorate. He was responsible for JSC's human space flight operations activities, including crew training, flight control, flight design, and vehicle integration activities. In 1997, he was named Director of Space Operations Management Office with responsibility for agency-wide space operations support and related facilities and systems. This included worldwide space networks, mission and network control facilities, operations data processing and planning systems, and telecommunications systems. In addition to his NASA responsibilities, Mr. O'Neill was a founding member of the board of directors for Space Center Houston.

Mr. O'Neill holds a bachelor's degree in mechanical engineering from the University of Nebraska and a master's in the same field from the University of New Mexico. Before joining NASA, Mr. O'Neill served as an Air Force fighter pilot and then as a project engineer at Sandia National Laboratory in Albuquerque.

After retiring from NASA in 1998, Mr. O'Neill has continued to work as an aerospace operations consultant in the Clear Lake area.



Aerospace
Operations
Consultant

Chang-Diaz & Melroy

Stellar Award Presenters



Franklin R. Chang-Diaz

RNASA is honored to have Franklin R. Chang-Diaz, Ph.D., as one of the presenters of this year's Stellar Awards for Space Achievement. A veteran of six space flights, he has logged more than 1,269 hours in space.

Dr. Chang-Diaz, a native of Costa Rica, holds a doctorate in applied plasma physics from the Massachusetts Institute of Technology. Throughout his career, he has been deeply involved in research. Most recently, he has been engaged in the design of new concepts in rocket propulsion.

Selected by NASA in 1980, Dr. Chang-Diaz became an astronaut in August 1981. While in astronaut training, he was also involved in flight software checkout at the Shuttle Avionics Integration Laboratory, and participated in the early Space Station design studies. In late 1982, he was designated as support crew for the first Spacelab mission and served as a capsule communicator during that flight.

As a visiting scientist with the MIT Plasma Fusion Center from October 1983 to December 1993, he led the plasma propulsion program there to develop the technology for future human missions to Mars. In 1993, Dr. Chang-Diaz was appointed director of the Advanced Space Propulsion Laboratory at the Johnson Space Center, where he continues his research on plasma rockets.

Dr. Chang-Diaz has been instrumental in creating closer ties between the astronaut corps and the scientific community. In January 1987, he started the Astronaut Science Colloquium Program and later helped form the Astronaut Science Support Group, which he directed until January 1989.

Dr. Chang-Diaz has flown aboard STS 61-C in 1986, STS-34 in 1989, STS-46 in 1992, STS-60 in 1994, STS-75 in 1996, and STS-91 in 1998. His most recent mission aboard Discovery, in June 1998, was the ninth and final Shuttle-Mir docking mission and marked the conclusion of the highly successful joint U.S./Russian Phase I Program.



Pamela A. Melroy

RNASA is honored to have Pamela Ann Melroy as one of the presenters of this year's Stellar Awards for space achievement. A lieutenant colonel in the U.S. Air Force, Melroy is a Shuttle pilot with more than 300 hours in space. She has logged more than 5,000 hours of flight time in nearly 50 different aircraft, including 200 combat and combat support hours.

Before her selection to the astronaut corps, Lt. Col. Melroy served as a pilot in the Air Force. She began her first operational assignment in 1985, flying KC-10 Extenders at Barksdale Air Force Base, Louisiana. Lt. Col. Melroy is a veteran of operations Just Cause and Desert Shield/Desert Storm.

In 1991, Lt. Col. Melroy completed the Air Force Test Pilot School at Edwards Air Force Base, California. She was then assigned to the C-17 Combined Test Force, where she served as a test pilot until her selection for the astronaut program in 1992.

After completing her initial astronaut training, Lt. Col. Melroy was assigned to astronaut support duties for launch and landing. She also has worked Advanced Projects for the Astronaut Office.

Most recently, Lt. Col. Melroy served as pilot aboard Discovery on STS-92 in October 2000. During the 13-day flight, the seven-member crew attached the Z1 Truss and Pressurized Mating Adapter 3 to the International Space Station using Discovery's robotic arm. During the mission, crew members performed four space walks to configure the elements. This expansion of the ISS opened the door for future assembly missions and prepared the station for its first resident crew.

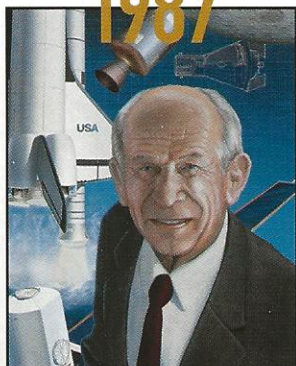
Lt. Col. Melroy holds a bachelor's degree in physics and astronomy from Wellesley College and a master's degree in earth and planetary sciences from the Massachusetts Institute of Technology.

Past Recipients

Previous National Space Trophy Award Recipients

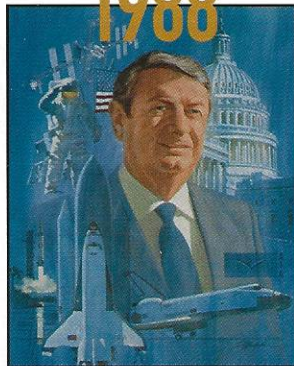
Dr. Maxime Faget

1987



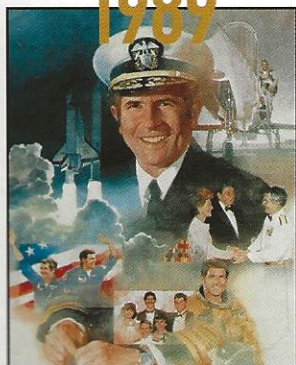
Don Fuqua

1988



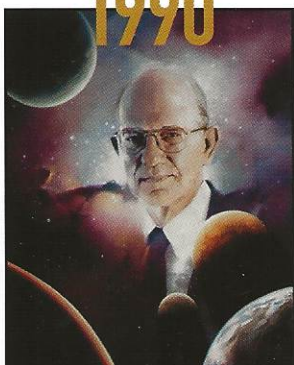
Vice Adm. Richard Truly

1989



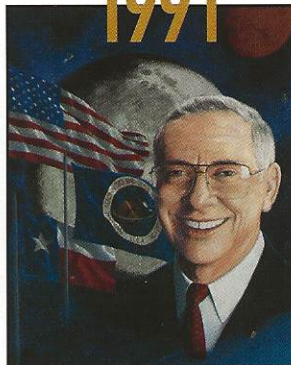
Dr. Lew Allen

1990



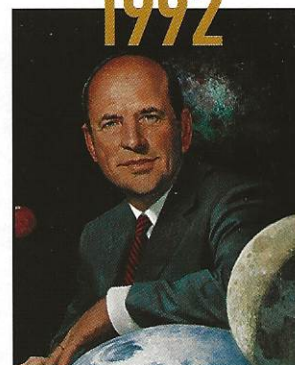
Aaron Cohen

1991



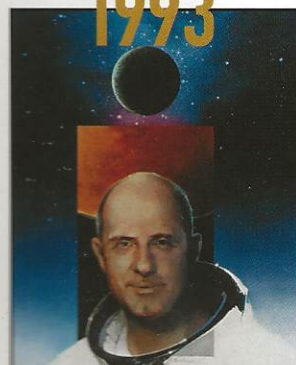
Norman Augustine

1992



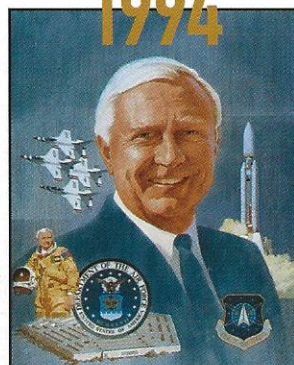
Lt. Gen. Thomas Stafford

1993



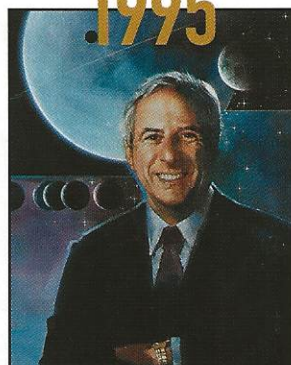
E.C. "Pete" Aldridge

1994



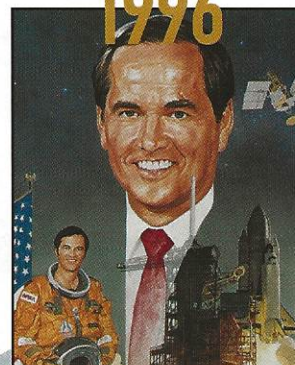
Dan Goldin

1995



Robert L. Crippen

1996



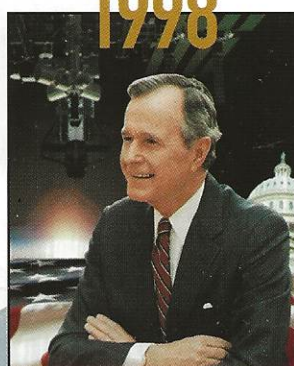
George W. S. Abbey

1997



George W. Bush

1998



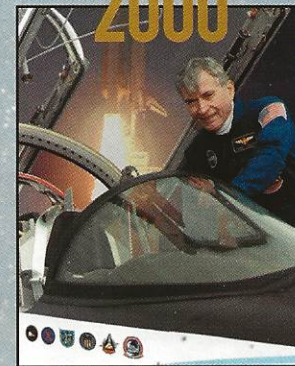
Christopher C. Kraft, Jr.

1999



John W. Young

2000



The National Space Trophy

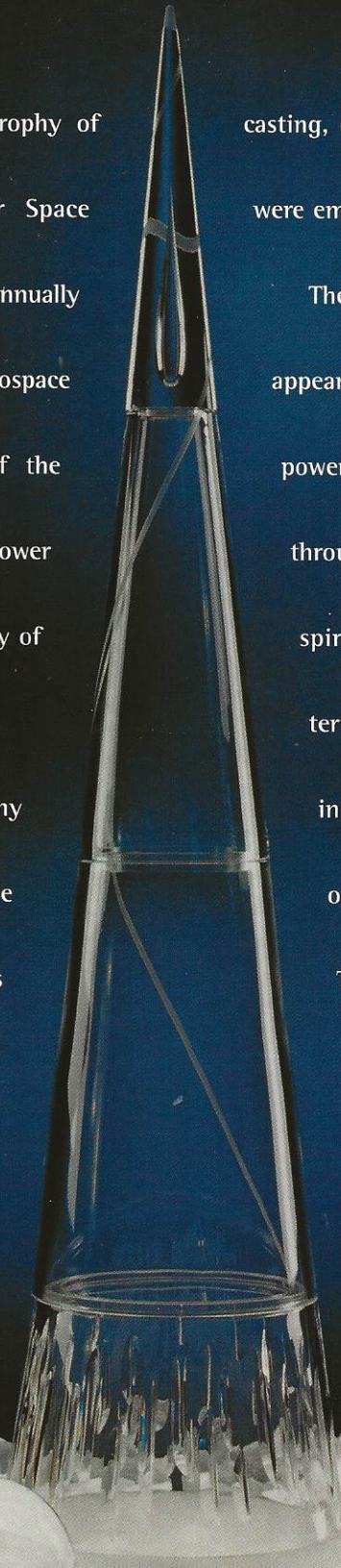
The prestigious National Space Trophy of the Rotary National Award for Space Achievement Foundation, awarded annually to an individual selected by aerospace leaders, depicts the aspiration of the human need to explore space, the power and vastness of space and the glory of human achievement.

Created by Steuben Glass Company of New York, the trophy is made entirely of lead crystal. It weighs approximately 500 pounds and is almost four feet tall. Most of the processes practiced by Steuben –

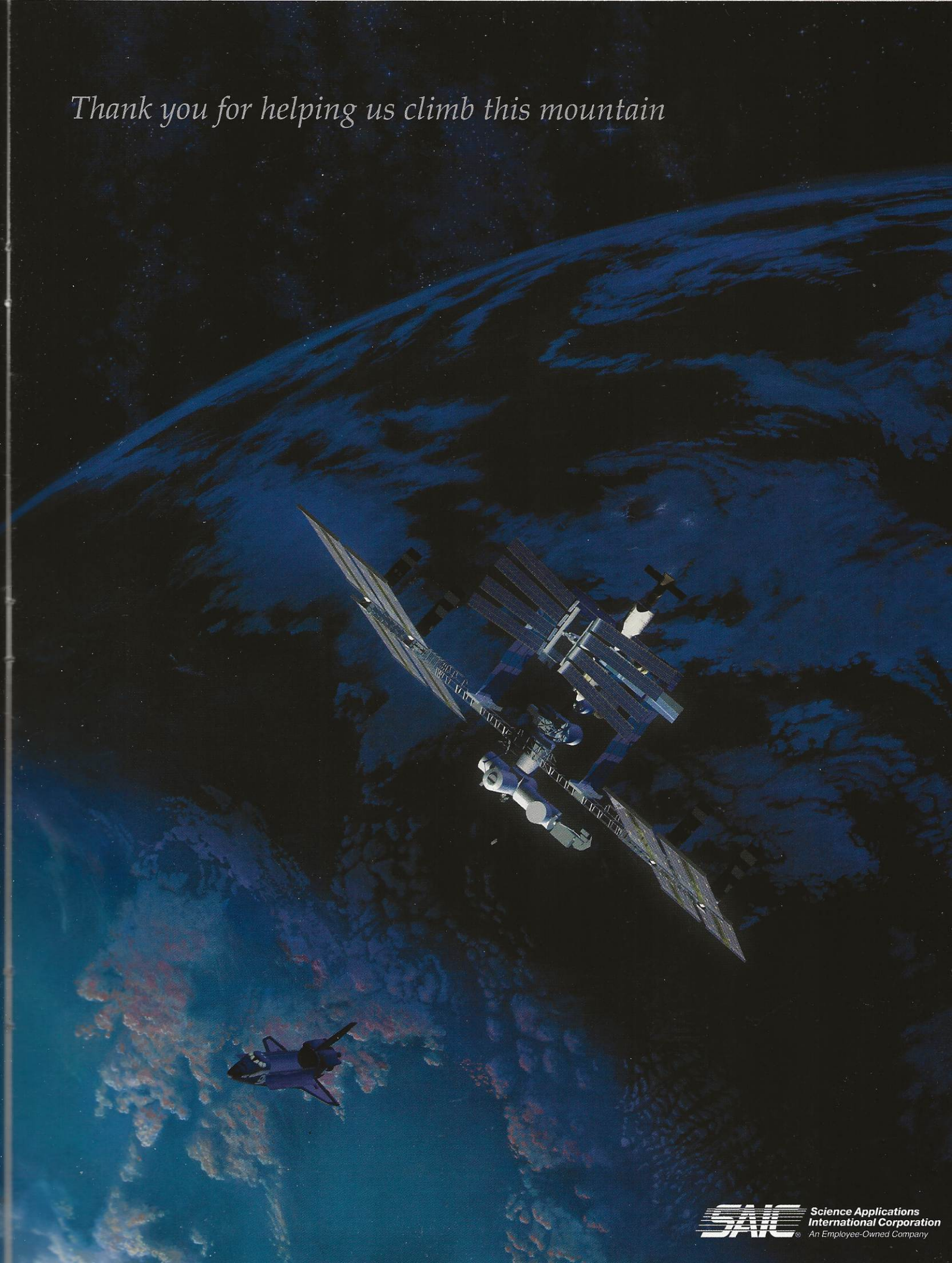
casting, cutting, blowing and engraving – were employed in the trophy's creation.

The trophy is a conical column that appears to hover over a field, of explosive power, randomly scattered with spheres throughout. A bright sandblasted line spirals around the column and terminates at the tip. Captured within the top of the cone is a bubble of air, seeming to hurtle upward.

The trophy is permanently displayed at Space Center Houston, the official visitors center of the Johnson Space Center.

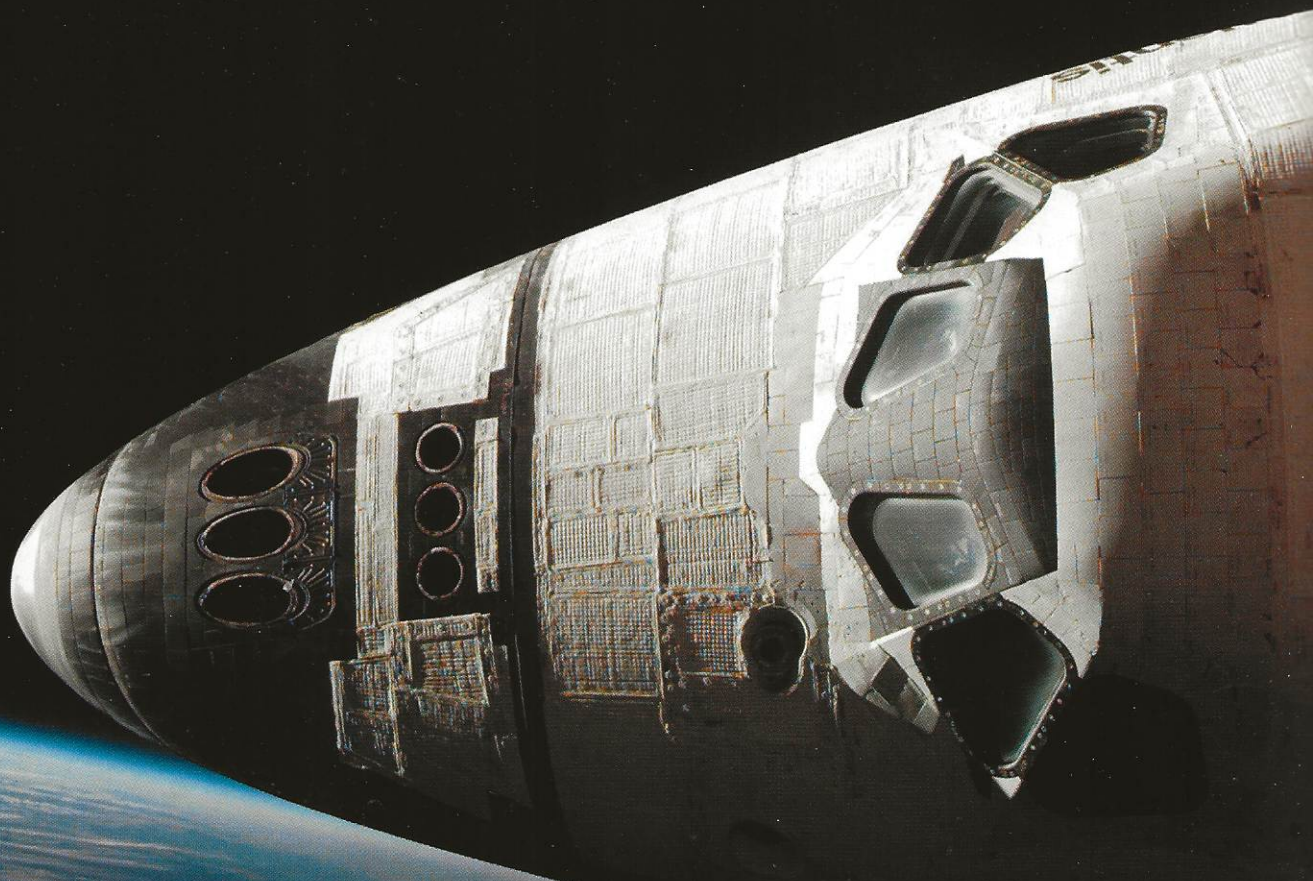


Thank you for helping us climb this mountain



Technical Excellence spanning 4 major programs.

Vision and Leadership spanning 35 years.



Benefits spanning generations.

United Space Alliance salutes **Tommy Holloway**.



United Space Alliance

NOMINEES

Stellar Award Nominees

RECENT GRADUATES

Mr. Mukwatsibwoha L. Alibaruho

NASA Johnson Space Center

Exceptional contributions in developing cabin atmosphere depressurization responses to ensure the safety of flight crews living on-board the International Space Station.

Ms. Cynthia D. Cross

NASA Johnson Space Center

Exceptional level of professional responsibility, technical expertise, and leadership, as Subsystem Manager, in the testing, qualification and achieving flight readiness of the External Active Thermal Control System of the International Space Station.

Mr. Patrick H. Dunlap, Jr.

NASA Glenn Research Center

Significant contributions to the research and development of advanced thermal barrier seals for the Space Shuttle and future space vehicles.

Mr. J. David Jochim

NASA Johnson Space Center

Outstanding efforts to design, develop, fabricate and test both the Pneumatic Transporter and the Mini-AERCam robots.

EARLY CAREER

Maj. Christopher D. Baker

Army Space Support Company,
1st Space Battalion

Providing ongoing space expertise, analysis and products to a myriad of Army warfighting units including the Army's premier XVIII Airborne Corps, Ft. Bragg, NC, the Eighth US Army, Korea and the Special Operations Forces in various theaters of operation.

Mr. Michael A. Brieden

NASA Johnson Space Center

Outstanding contributions in the leadership of the Shuttle cockpit avionics upgrade effort.

Mr. Christopher J. Flynn

Air Force Research Laboratory/ITFC

Commitment to the development of a high performance radiation hardened digital signal processor to significantly increase the processing capacity of space systems.

Ms. Carolyn G. Fritz

NASA Johnson Space Center

Outstanding achievement in managing the development, integration and acceptance testing of the Neutral Buoyancy Facility Space Station Remote Manipulator System, thereby producing a top-quality training system for use in neutral buoyancy training for the International Space Station.

Capt. Derek L. Geeskie

USAF 1st Space Launch Squadron

Outstanding leadership as the Air Force Launch Director for the first successful Delta III mission.

Ms. Susan E. Gomez

NASA Johnson Space Center

Significant contributions to successful implementation of Global Positioning System technology on the International Space Station and the Crew Return Vehicle.

Mr. Frank W. James

Lockheed Martin Space Operations

Significant contributions to the design and development of Extra-Vehicular Activity tools such as the Body Restraint Tether.

Mr. Chris S. Lovchik

NASA Johnson Space Center

Innovative design of robotic hands that for the first time can truly emulate the capabilities of a human hand, thus allowing robots to be a viable solution to a wide range of problems both in space and on Earth.

Dr. Troy E. Meink, Ph.D.

US Air Force Research Laboratory, AFRL/VSSV

Significant contribution to the future of space structures and high power solar array systems, greatly reducing the cost and enhancing the capability of future launch and space systems.

Ms. Patricia L. Moore

NASA Johnson Space Center

Outstanding leadership in creating an integrated Russian/U.S. operation team which has been instrumental in the successful completion of numerous Phase One and ISS missions.

Mr. Kevin G. Rees

Thiokol Propulsion

Outstanding efforts on the Space Shuttle Reusable Solid Rocket Motor (RSRM) to ensure instrumentation and electrical systems are designed properly and will continue to operate reliably.

Mr. Mark S. Sorensen

The Boeing Company

Dedicated long-term commitment to the final assembly, test and launch of the International Space Station Outboard Truss Cargo Elements Z1 and P6 at the Kennedy Space Center.

Mr. Arnold H. Streland

United States Air Force,

Air Force Material Command

Significant contributions to acquisition management and planning for the Space Based Laser Integrated Flight Experiment.

Mr. David C. Williamson

Air Force Research Laboratory/ITFC

Commitment to the Micro Electro Mechanical Systems (MEMs)-based PICOSAT Inspector (MESPSI) program, which will demonstrate technologies for on-orbit service of space assets and enhanced operations.

MID-CAREER

Mr. James L. Allen

The Boeing Company

Exceptional leadership, outstanding dedication and technical excellence demonstrated during the development of the Active Rack Isolation System-In-flight Characterization Experiment (ARIS-ICE) for the International Space Station Program.

Lt. Col. Robert B. Baehr

US Army Space and Missile Defense Battle Lab

Making utilization of space assets a reality for Army warfighters, increasing the Army's involvement in the future development of space equipment and advancing the role of the space operations officer.

Mr. David L. Baker

NASA Johnson Space Center-WSTF

Outstanding technical leadership in the resolution of numerous safety concerns surrounding the use of hypergolic propellant systems in spacecraft and in the dissemination of related safety knowledge to NASA and the aerospace community.

NOMINEES

Stellar Award Nominees

Col. Glen C. Collins

US Army Space and Missile Defense Command/
Force Development & Integration Center
Orchestration and synchronization of military
space activities, leading to numerous successes in
headline-news level military operations, and for
operationalizing space for our nation's military
forces.

Ms. Carol T. Evans

NASA Johnson Space Center
Outstanding leadership in establishing a world
class spacecraft assembly, test and checkout capa-
bility at the Johnson Space Center for the X-38
Crew Return Vehicle Prototype Project.

Mr. Edward W. Gholdston

The Boeing Company
Technical and leadership contributions in the
development and successful implementation of
the electrical power system on the International
Space Station.

Ms. Terri L. Herst

NASA Kennedy Space Center
Technical expertise and demonstrated leadership
in engineering integration activities during
Shuttle processing.

Mr. Douglas L. Holker

The Aerospace Corporation
Pioneering efforts in integrating commercial
satellite systems into future military architec-
tures.

Ms. Vickie L. Kloeris

NASA Johnson Space Center
Outstanding leadership and achievement in
space food system development and for ensuring
that NASA meets the nutritional requirements
for all Shuttle, Shuttle-Mir, and International
Space Station flight crews.

Dr. Richard V. Morris, Ph.D.

NASA Johnson Space Center
Outstanding leadership as an internationally rec-
ognized mineralogist and planetary scientist
whose work will greatly further our understand-
ing of the geological processes and climate of
Mars, and will help pave the way for future
human exploration.

Col. Stanley L. Mushaw

USAF SAE/SXP
Outstanding and pioneering efforts in space
launch operations and significant national lead-
ership roles and responsibilities related to future
space launch activities.

Mr. William C. Panter

NASA Johnson Space Center
Significant contributions to the International
Space Station Program in the area of software
development and integration.

Ms. Patricia A. Petete

NASA Johnson Space Center
Exceptional leadership and technical expertise in
project management, resulting in development of
new processes and procedures for upgrading the
Space Shuttle to fly safely until 2012.

Mr. Daniel C. Pulleyn

Thiokol Propulsion
Outstanding leadership in implementing a highly
effective concurrent engineering process for the
Space Shuttle Reusable Solid Rocket Motor
Project which resulted in significant cost savings
and increased hardware quality.

Ms. Joyce M. Rozewski

NASA Johnson Space Center
Outstanding development and leadership of the
Space Shuttle Program Process Control Initiative.

Mr. Joel M. Stoltzfus

NASA Johnson Space Center-WSTF
Sustained excellent performance in understanding
of metals combustion in oxygen to improve the
safe operation of the Shuttle, ISS and GSE oxygen
systems.

Mr. Dave A. Thayer

American Pacific Corporation
Heroic and indispensable effort in preserving
America's production capacity for the strategic
raw material, ammonium perchlorate.

Dr. Janice V. Meck, Ph.D.

NASA Johnson Space Center
Improving the Johnson Space Center's status
in the national and international research
communities by developing the cardiovascular
laboratory into one that is internationally
recognized for its excellence.

LATE CAREER**Mr. George C. Alford**

Thiokol Propulsion
Outstanding leadership on the technically
challenging Space Shuttle Reusable Solid Rocket
Motor program, resulting in 16 successful
full-scale static tests and 72 launches.

Mr. Ronald C. Epps

NASA Johnson Space Center
Outstanding technical and managerial
leadership exhibited throughout his career at the
Johnson Space Center, providing significant
contributions to the Apollo, Skylab, Shuttle, and
Station programs.

Mr. Russell A. Howard

Naval Research Laboratory, Code 7660
Contributions to imaging of the solar corona and
demonstration of the relationship of coronal
mass ejections (CMEs) to geomagnetic storms.

Mr. James R. Jaax

NASA Johnson Space Center
Overall leadership and technical direction of
NASA's pioneering space efforts.

Mr. Carl F. Koontz

NASA Johnson Space Center
Leadership and expertise in upgrading NASA/
JSC aircraft with state-of-the-art hardware in
minimum time and at minimum cost.

Mr. Joseph J. Kosmo, Jr.

NASA Johnson Space Center
Outstanding engineering expertise and
contributions in the development and
advancement of spacesuit technologies that
address current as well as future Agency
extravehicular exploration applications.

Mr. Lonnie J. Schmitt

United Space Alliance
Outstanding leadership to United Space Alliance
and the Space Shuttle Program during his career
of over 20 years as a PROP flight controller.

Lt. Gen. Eugene L. Tattini

Space and Missile Systems Center (SMC)
Setting the standard for the legacy launch
vehicles and ensuring that responsible business
practices and processes and a resource pool exist
to guarantee a solid future for the nation's launch
capability.

Mr. Roger C. Zwieg

NASA Johnson Space Center
Outstanding contributions as Shuttle Training
Aircraft Instructor Pilot in preparing Shuttle
Pilots for the critical approach and landing phase
of their mission.

NOMINEES

Stellar Award Nominees

TEAMS

ISS Houston Support Group in Russia

NASA Johnson Space Center

Outstanding achievement in establishing a NASA flight operations team in Russia to ensure the effective integration of joint International Space Station operations requirements.

ISS Thermal Test Article Team

NASA Johnson Space Center

Demonstration of an extraordinary level of technical excellence and professional dedication in completing a unique and highly complex Chamber A thermal vacuum test that has successfully verified the performance of a substantial and representative portion of the International Space Station Active Thermal Control System hardware and software.

Boeing Delta III Return to Flight Team

The Boeing Company

Successful flight of the Delta III launch vehicle in August 2000, demonstrating the operational status of the Delta III and proving the operation of the second stage, which is a critical element of the Delta IV next generation of launch vehicles.

United Space Alliance

Global Positioning System Team

United Space Alliance

Contributions to the NASA initiative to integrate use of the GPS system into Space Shuttle operations; the success of this initiative will lead to improved Space Shuttle navigational performance, and consequently improved crew safety and mission supportability.

System Effectiveness Analysis Simulation Team

USAF Space and Missile Systems Center / LAAFB

Excellence in quick-reaction multi-mission modeling enabling more informed acquisition decisions and providing alternative course of action analyses for adjudicators of wargames such as Title-X Global Engagement and the inaugural AF Space Game, forging the way ahead in agent-based analysis.

IHPRPT Phase I

Solid Boost Demonstrator Team

Thiokol Propulsion

Extending the state of the art in solid rocket motors by successfully demonstrating new materials and processing technologies, and achieving significant performance improvements and cost reductions in achieving the IHPRPT Phase I Solid Boost and Orbit Transfer goals.

RSRM Ozone Depleting Compound Elimination Team

Thiokol Propulsion

Protecting earth's environment by a 92% reduction in ozone depleting compound material usage since 1994.

Centerline Berthing Camera System Team

Lockheed Martin Space Operations

Innovative technological solutions, exceptional test planning, and remarkable cost management in the design, fabrication, space qualification, and delivery of a new berthing alignment tool for assembly of critical space station elements.

Army Space Support Company

1st Space Battalion

Providing direct, continuous, and innovative analysis, expertise and space products as an integral staff element within Army Task Forces, Corps, divisions, separate brigades and special operations forces (SOF) during exercises and military operations, including Bosnia, Haiti, Korea, Kosovo and Operation Desert Shield/Storm.

Lockheed Martin IKONOS System Development Team

Lockheed Martin Space Systems-Missiles & Space Operations

Successful development of the world's first operational commercial 1-Meter resolution imaging satellite system which forms the core of an emerging global commercial high-resolution space imaging market. The IKONOS system is being used for disaster response, humanitarian and defense efforts, urban planning and a variety of other commercial applications worldwide.

Atlas III & RD-180 Team

RD AMROSS, Pratt & Whitney,

United Technologies Corp.

Stunning technical feat of the maiden voyage of the Lockheed Martin Atlas III (AC-201) launch vehicle, marrying American and Russian space technology with the RD-180 Russian liquid booster engine, which successfully placed the Eutelsat W4 communications satellite into orbit.

Space Vision System Development Team

NASA Johnson Space Center

Exceptional dedication and technical excellence in designing, developing, certifying and implementing the first ever Space Vision System.

SMC Aerospace Integration Team

USAF Space and Missile Systems Center / LAAFB

Pioneering efforts in concept exploration and technical feasibility of Space Based Radar and Hyperspectral Imaging to revolutionize war fighting capabilities.

Raytheon Technical Services Company, Aerospace Engineering Service's Part Task Trainer Development Team

Raytheon Technical Services Company,

Aerospace Engineering Services

Successfully developing the Part Task Trainer to provide the capabilities required for the successful training of the International Space Station's Expedition 1 flight crew.

Boeing U.S. Laboratory Team

The Boeing Company

Efforts in design and development of the Destiny Module, considered the centerpiece of the International Space Station.

X-38 MACH Flight Control Team

Honeywell Inc., Houston Engineering Center

Development and application of innovative flight control design technologies and testing approaches to NASA's X-38 Program.

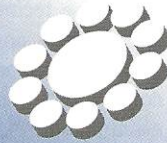
821 Space Group Data Masked Unit Team

USAF / Data Masked Unit

Outstanding support to the space mission through cost-cutting, innovative initiatives that highlight the true team spirit necessary for furthering future successes in space.

Congratulations TOMMY HOLLOWAY

A dedicated leader in
space exploration.

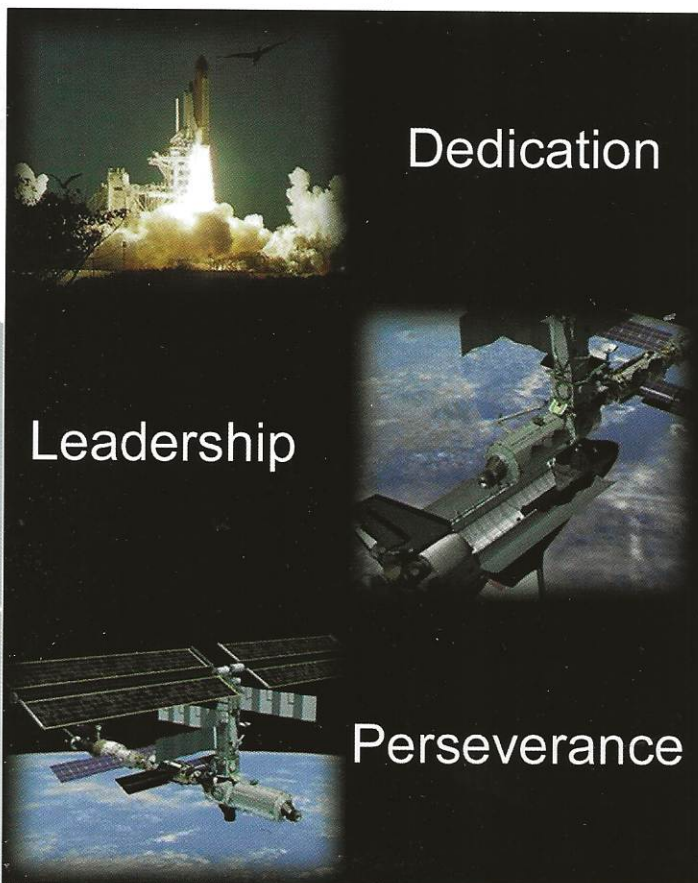


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Congratulations Tommy Holloway

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Robert R. Gilruth

In Memory Of

The year 2000 marked the passing of a great figure among NASA's pioneering engineers, scientists and managers. Robert R. Gilruth died August 17, 2000, at age 86.

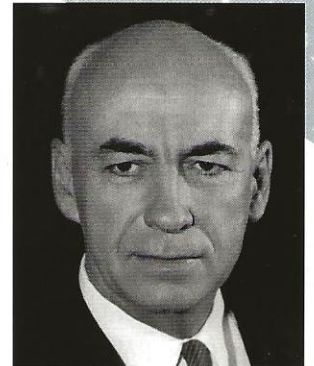
Often referred to as the father of manned space flight, Dr. Gilruth was the recipient of The Corona, the Rotary's special lifetime achievement award in 1992. His long and distinguished career was dedicated to the exploration of space.

As an engineer with the National Advisory Committee for Aeronautics, Dr. Gilruth spearheaded research into rocket-powered aircraft in the 1940s and '50s. When NASA was established in 1958, Dr. Gilruth led a team that created the basic design for Project Mercury, the program that put the first Americans in space.

In 1961, Dr. Gilruth became the first director of Houston's Manned Spacecraft Center, now the Johnson Space Center. During his 10 years as head of the Center, he directed 25 manned space flights, including the first Mercury flight in 1961 and the first Apollo Moon landing in 1969.

Dr. Gilruth retired from NASA in 1973, but was appointed as a consultant to the Administrator in 1974. In that role, he continued to provide valuable guidance to the nation's space program.

Dr. Gilruth was among the first ten individuals selected for the National Space Hall of Fame. He received the President's Award for Distinguished Federal Service and the prestigious Collier Trophy from the National Aviation Club.



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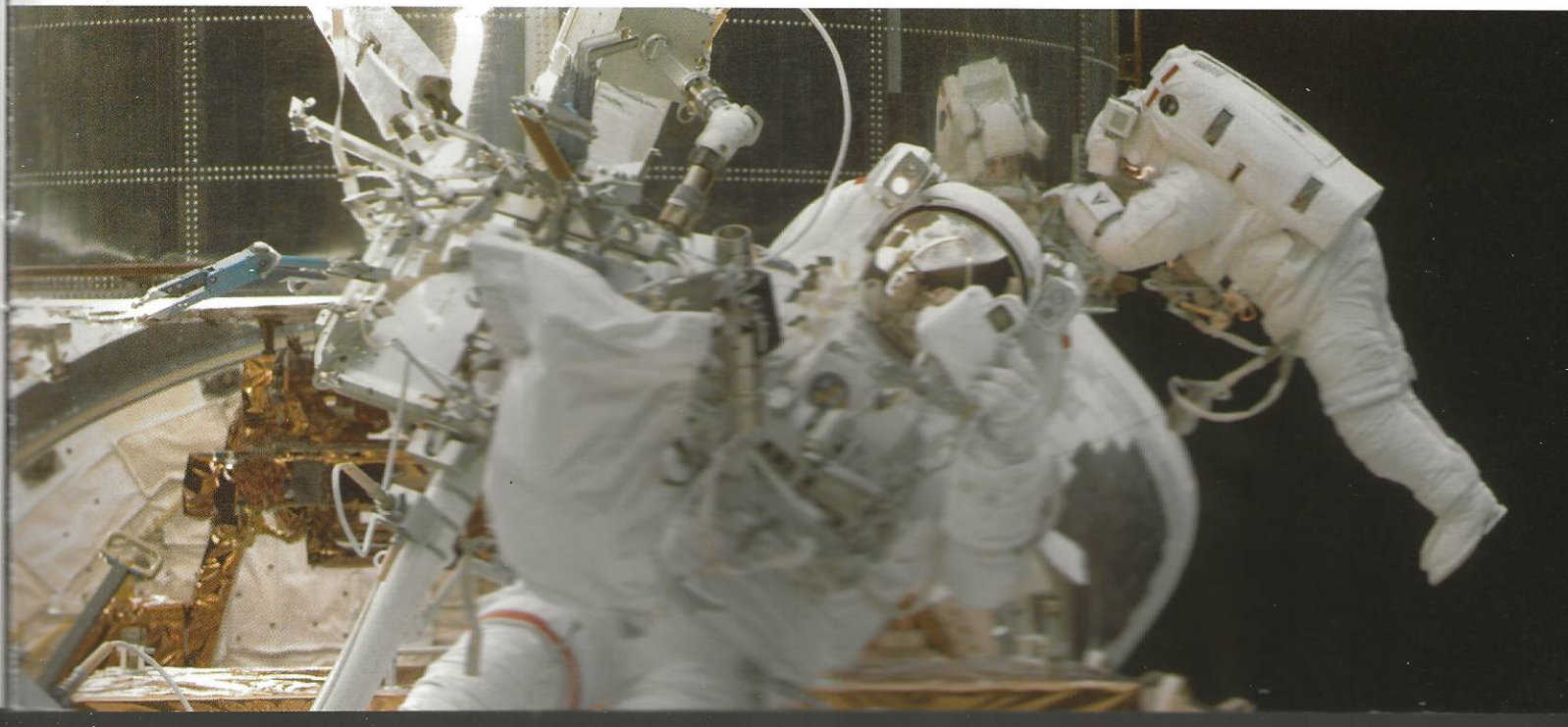
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Space Systems

At Lockheed Martin, we take pride in our support of NASA and America's space program. And, we salute Tommy Holloway, recipient of the 2001 Rotary National Award for Space Achievement. Congratulations, Tommy.

Mission Success

with integrity, leadership, and imagination,
the future knows no bounds.



YOU GET THE BEST VIEW OF SPACE AFTER
CLIMBING THE HIGHEST MOUNTAIN.

Tommy Holloway knows firsthand that building and assembling the International Space Station is like "climbing the mountain." With Tommy's leadership however, we are nearing the top. We're proud to congratulate Tommy on being awarded the 2001 Rotary National Award for Space Achievement.

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