



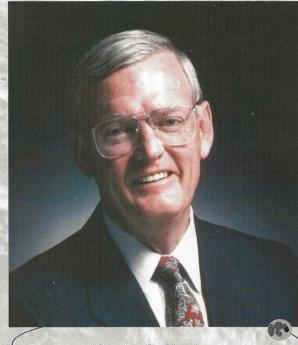


### NATIONAL SPACE TROPHY RECIPIENT

The Board of Advisors of the Rotary National Award for Space Achievement (RNASA) Foundation selected Dr. Glynn S. Lunney as the recipient of the 2005 National Space Trophy for his outstanding dedication and remarkable contributions to human space flight and his unparalleled vision that strengthened the foundation for future U.S. space endeavors.

Born in Old Forge, Pennsylvania on November 27, 1936, young Glynn's bedroom ceiling was crowded with model airplanes. "The challenge of flight was calling me early," he said. His interest in airplanes led to a co-op engineering program at the University of Detroit where he spent alternate semesters at the Glenn (then Lewis) Center in Cleveland, Ohio. He graduated in 1958 with a degree in aeronautical engineering and continued research in collaboration with Langley Research Center in Virginia. Within a year, he joined the Space Task Group to work on the Mercury project.

Dr. Chris Kraft, Jr., first met Lunney in 1959. "He was a young engineer excelling in orbital mechanics," Kraft recalled. "He was especially adept at the computer and software development for the real-time computation of orbit determination which was a breakthrough at the time."



Glynn S. Lunney

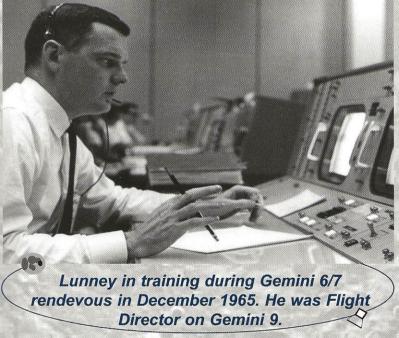
### A Calm Flight Director

Lunney moved to Houston in 1962 and became chief of the Flight Dynamics Branch. He served as a Flight Director for Gemini and Apollo, including Apollos 11 and 13. Lunney said the most satisfying aspect of his work "was to be surrounded by dedicated team members at all levels who were driven by the same goals and supported each other unselfishly. The teamwork, the joy of making each step, and the challenge of the next flight sustained us and amplified the sense of doing something historic for our country."

Kraft said Lunney was a calm and yet demanding flight director. "Lunney understood the underlying requirements of how the process had to be conducted. He also showed his expertise in managing a group of highly talented individuals in order to mold a team of decision makers." His "Black" flight control team's performance during

"Black" flight control team's performance during Apollo 13 earned them (as part of the Mission Operations Team) the nation's highest civilian honor, the Presidential Medal of Freedom; and Lunney was personally recognized with numerous awards including the AIAA Lawrence Sperry Award for outstanding contributions by an engineer under thirty-five years of age.

Lunney was chief of the Flight Directors office from 1968 to 1972. In 1972, Kraft chose Lunney as the project manager for the Apollo-Soyuz Test Project (ASTP). "It was a period where very careful and precise information exchange was needed, and Lunney was a master at getting the Russians to do what had to be done," Kraft said. The ASTP flight was successfully completed in 1975, and Lunney feels that its legacy is "alive and well in our current relations with the Russians on Space Station."





Lockheed Martin congratulates Glynn Lunney and all Stellar Award nominees.

LOCKHEED MARTIN

We never forget who we're working for"



### NATIONAL SPACE TROPHY RECIPIENT continued

### **Shuttle Manager**

After ASTP, Lunney became manager of the Integration and Development Program. From late 1975 to 1981, he served at NASA Headquarters twice for nine months as deputy associate administrator for Space Flight, and then as acting associate administrator for Space Transportation Operations, personally directing a budget in excess of \$1.5 billion. During these two tours, he came to understand the important oversight role of headquarters. "In seeing how our wider government (outside NASA) operated, I was at first surprised and then impressed with their ability to focus on the policy and budgetary implications without getting lost in a complicated technical program."

In 1981 after STS-1, Lunney was selected as manager of the Shuttle program for its next sixteen flights, overseeing all vehicle systems

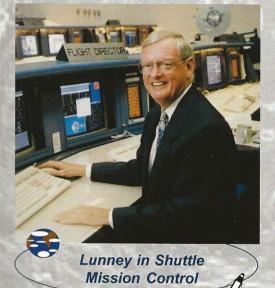
engineering, design, and integration. Kraft said, "Although Lunney is well known by his peers, I don't think he has ever received the recognition for the tremendous accomplishments he made while a member of the NASA or-

ganization. He did every job he was given with a quiet confidence and was highly respected for his management skills by those who worked for him."

Lunney left NASA in 1985 and became President, Rockwell Satellite Systems Division, building the Block II Global Positioning Satellite. After a tour at Rockwell Space Systems Division, he returned to Houston in 1989 to lead Rockwell Space Operations Company and Houston Operations. The Space Operations Company then became part of United Space Alliance (USA) in 1995. He described the start-up of the shuttle contract as catching a fast-moving train. "We had consolidated multiple previous shuttle contracts into a new company," he explained. "USA had to step up to manage all the related program activities without any slowdown in the flight rate or supporting developments. This was the train that the people of USA had to catch, board and manage successfully," and he added, "they did." Lunney was Vice President and Program Manager of USA's Space Flight Operations contract until his retirement in 1999.



Nixon awards the Presidential Medal of Freedom to Apollo 13 Flight Directors, Lunney, Kranz, Griffin, Windler, & Flight Ops Director Sjoberg with NASA Administrator Paine applauding.



### **Greatest Blessing**

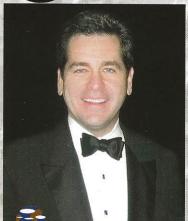
In retirement, Dr. Lunney enjoys advising two small start-up companies and playing golf. "I have come to realize that golf will not be mastered, but will continue to be humbling," he said. What he calls his "greatest blessing" is his family, especially his wife Marilyn, their four children, and a dozen grandchildren. Marilyn is a Special Judge in Harris County; daughter Jenny Brayley runs a veterinary practice in Houston; son Glynn, Jr. is a law professor at Tulane; son Shawn is an executive at Cyberonics; and, following in his father's footsteps, son Bryan is a Flight Director.

As our Stellar Award nominees face the challenges of going to the Moon and Mars, Dr. Lunney advises them "to be open and attentive to new, or even radical sounding ideas or concepts. It is difficult to be a champion against conventional wisdom, but there are numerous program examples of concepts which move from out-of-favor to becoming the baseline."

Last year's winner, Neil Armstrong said, "Glynn Lunney was a skillful and balanced leader in pivotal roles. He is a superb choice as the 2005 recipient of the RNASA National Space Trophy." Congratulations, Dr. Lunney.



### MASTER OF CEREMONIES



Miles O'Brien

The Master of Ceremonies for this year's banquet is veteran space correspondent Miles O'Brien, news anchor for CNN/U.S. Based in CNN's world headquarters in Atlanta, O'Brien co-anchors the weekday newscast Live From with Kyra Phillips. He is the former anchor Saturday for CNN Morning and CNN Sunday Morning as well

as the former primetime co-anchor of CNN Headline News. As the space correspondent for the CNN News Group, O'Brien contributes regular reports to Next@CNN, a one-hour weekly magazine-format program covering science, technology, space, aviation and environmental current events.

O'Brien covers all aspects of manned and unmanned spaceflight. He covered John Glenn's return to space in 1998, led CNN's coverage of the demise of NASA's Mars Climate Orbiter and Polar Lander in 1999, provided a series of live and taped reports from Russia and Kazakhstan coinciding with the launch of the first crew to the International Space Station in 2000, and created a documentary, "Terminal Count: What it Takes to Make the Space Shuttle Fly" in 2001. He provided indepth coverage of the Columbia Space Shuttle tragedy, and the successful results of the Mars Exploration Rovers "Spirit" and "Opportunity."

An instrument-rated pilot and part owner of a Cirrus SR-22 airplane, O'Brien also reports extensively on civil aviation issues, covering crash investigations, the 9-11 hijackings, and the war in Iraq.

O'Brien has a history degree from Georgetown and began his broadcasting career in 1982 at WRC-TV in D.C. He was a general assignment reporter and anchor at TV stations in Boston, Tampa, Albany, N.Y., and St. Joseph, Mo. O'Brien joined CNN in 1992 as anchor and correspondent for CNN's Science Unit, producing stories for CNN's daily programming and writing and hosting the weekly broadcast *CNN Science & Technology Week*.

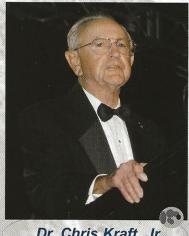
O'Brien's communication skills have been recognized with numerous awards, including the 2002 RNASA Space Communicator Award. O'Brien resides in Atlanta with his wife, Sandy.



## TROPHY PRESENTER

A member of the RNASA Board of Advisors and former winner of the National Space Trophy, Dr. Chris Kraft, Jr., is pleased to present this year's trophy to Dr. Lunney, whom he calls "a true hero of the space age."

Kraft graduated from Virginia Polytechnic Institute in 1944, and joined the National Advisory Committee for



Dr. Chris Kraft, Jr.

Aeronautics (NACA), 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. 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.

Since his retirement in 1982, Kraft has been an aerospace consultant and served on the Board of Directors of a number of Houston companies. 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.

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.

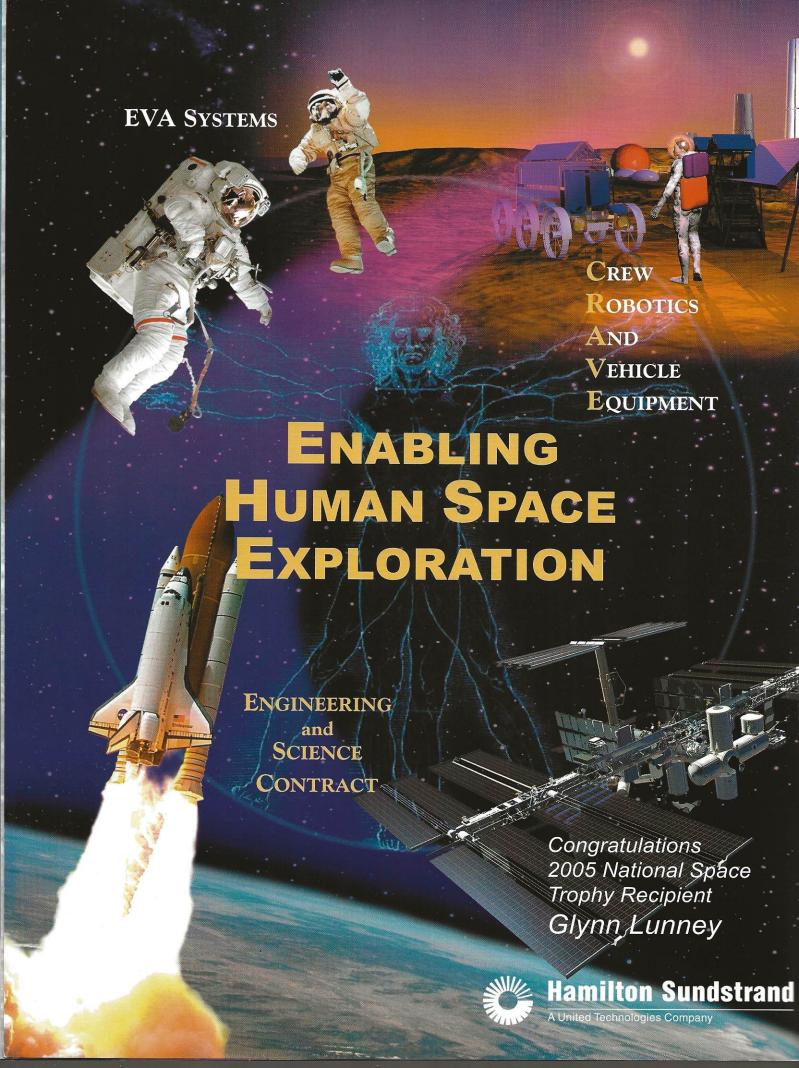


Glynn Lunney 2005 National Space Trophy Recipient

and all of the 2005 Stellar Award Winners



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### KEYNOTE SPEAKER



Hon. Tom DeLay calls the Expedition 4 crew in 2002.

The RNASA Foundation is delighted to have the Honorable Tom DeLay as our keynote speaker this evening. He serves as majority leader, the second ranking leader in the United States House of Representatives. He is responsible for developing the issues and policies that form the Republican agenda, in conjunction with committee chairmen and the rest of the leadership. DeLay sets the legislative schedule by selecting which bills the House will consider and the timing of their consideration. DeLay also coordinates House committees' work to ensure national priorities are addressed.

Long a champion of the space program, DeLay was key in winning approval of an increased budget for NASA last fall. The original bill set for approval in November cut NASA funding to \$15.9 billion, versus the \$16.2 billion requested by the president. DeLay personally pushed to up the amount. "I told the negotiators I wouldn't schedule the bill unless NASA was taken care of," DeLay said in the *Galveston Daily News*. "That's why at 11:30 at night, the last issue of this huge omnibus bill was NASA."

A native Texan, DeLay was born in Laredo on April 8, 1947. During DeLay's childhood, his father's career in the oil and gas industry required the family to move to small towns near the oil fields in Venezuela's rural interior. They lived through two violent

revolutions where neighboring townspeople died at the hands of marauders. DeLay points to this early exposure to political violence as the source of his lifelong passion

for freedom.

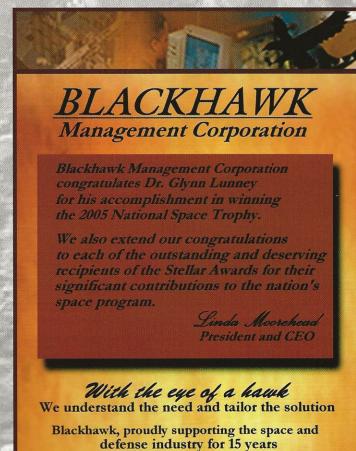
DeLay graduated from the University of Houston in 1970 with a degree in biology. Shortly afterwards, he opened and operated a successful business in Houston. The need to lower the twin burdens of excessive taxation and unneeded regulation on small businesses sparked his involvement in the political process.

In 1978 DeLay won election to the Texas State House. After serving in Austin for six years, he became the first Republican elected from Fort Bend County to the United States Congress.

Since 1984, DeLay has represented the 22nd District of Texas, which now includes the Johnson Space Center. He served as chairman of the Republican Study Committee, Republican Conference secretary, and deputy whip before being elected majority whip in 1994. During the eight years he counted votes, DeLay regularly overcame daunting odds to deliver victory after victory for House Republicans. He was first elected as majority leader at the start of the 108 th Congress (2003-04).

Tom and his wife Christine have a daughter Danielle and became grandparents in 2002 when she and her husband Steve had their first child.

As DeLay told Johnson Space Center employees last November, "Make no mistake, we still have our battles to fight, engineers and legislators both . . . but for NASA, a day without a challenge is like a night without stars."



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# Max Faget

# TRIBUTE TO MAXIME FAGET (1921-2004)



The first recipient of the National Space Trophy and a member of the RNASA Board of Advisors, Dr. Maxime A. Faget, died on October 9, 2004 at his home in Houston. "Max was truly a legend of the manned spaceflight program," former JSC Director Dr. Chris Kraft said. "He was a colleague and a friend I regarded with the highest esteem. History will remember him as one of the really great scientists of the 20th Century."

Faget was born in British Honduras and graduated from Louisiana State University with a degree in mechanical engineering in 1943. His college roommate and colleague was Guy Thibodaux who called Max "a great visionary" who "had courage to stick his neck out and battle anyone for the right to do his thing, no matter what their title was."

Faget served in the Navy submarine service during WWII, then joined the National Advisory Committee for Aeronautics (NACA) at Langley in Virginia. At NACA, he and Thibodaux worked on the design of the X-15, the first manned vehicle to reach Mach 6 and an altitude of over fifty miles. Thibodaux

said, "Many of Max's ideas were the collaborative work of many and arose from lively discussions during a brown bag luncheon and hearts game or conversations around the Coke machine or coffee pot."

Faget joined the Space Task Group under Robert Gilruth and moved to Houston as Director of Engineering.

He was the chief designer of the Mercury, Gemini, and Apollo Command Module spacecraft. Faget's patents include the Aerial Capsule Emergency Separation Device (escape tower), the Survival Couch, the Mercury Capsule, and a Mach Number Indicator.

At Faget's memorial service on October 16, former astronaut Joe Allen said, "I clearly recall watching him from the Mission Control viewing room as he monitored the first reentry test of an unmanned Apollo Command Module being driven from an altitude of several hundred miles back into our atmosphere at the Moon reentry speed of 25,000 miles per hour. Upon the reacquisition of signal following the expected communication blackout, all of us in the Mission Control were elated. The ship had survived the fiery reentry. But Max continued intently studying the data. Later I saw him briefly and congratulated him on the successful test. 'Successful yes,' he said. 'But the data shows the heat shield is a bit too thick. With the correct design, we could have saved 700 pounds.'"



Apollo Module

Faget is often called the father of the space shuttle because his study of reusable

spacecraft led to the decision to develop that vehicle. He envisioned the orbiter with a straight-wing. NASA opted for a delta-shaped design, but Faget was satisfied with the final

result, remarking, "She really is a marvelous machine." He left NASA in 1981 after the second successful test flight of Columbia. In the early 1980s Faget founded Space Industries with the

In the early 1980s Faget founded Space Industries with the goal of building an industrial space station. Unfortunately, Faget's station plans were never realized. Space Industries was absorbed into other aerospace companies through a series of mergers in the 1990s.

Faget received much well-deserved recognition for his work including honorary doctorates from the University of Pittsburgh and Louisiana State University. When he was inducted into the National Inventors Hall of Fame in Akron, Ohio in 2003, he remarked, "It's hard to tell people how you invent something. You see a problem - you solve a problem," said Faget. "I enjoy solving problems."

Thibodaux said, "Max was an inventor, a pioneer visionary of

manned space flight, an outstanding engineer and leader who never lost touch with all who worked for him."

Faget's wife Nancy died in 1994. He is survived by four children and ten grandchildren, plus thousands of people who owe him a huge debt of gratitude for his contributions to space exploration. The members of the RNASA Foundation will miss his wise council, good humor, and friendship.





# Janet Kavandi, Ph.D.

### STELLAR AWARDS PRESENTER

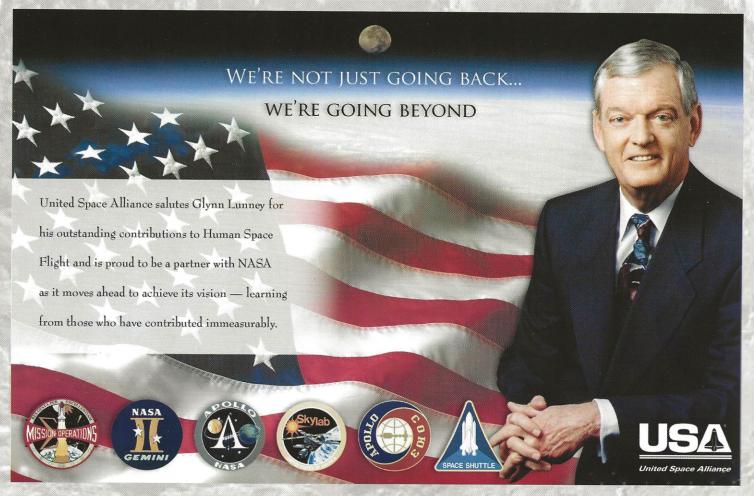


The RNASA Foundation welcomes astronaut Janet Lynn Kavandi to share in presenting the Stellar Awards. She was selected in 1994 and assigned to the Payloads and Habitability Branch in support of the International Space Station (ISS). Kavandi flew on STS-91 in June of 1998, the final shuttle-*Mir* docking mission. She served as a CAPCOM in mission control and flew again in February 2000 on STS-99, the Shuttle Radar Topography mission. Kavandi then trained on both the shuttle and station robotic systems and flew her third mission aboard STS-104/ISS Assembly Flight 7A in July 2001. This tenth mission to the ISS installed the "Quest" airlock during Expedition 2.

Born in Springfield, Missouri, Kavandi was valedictorian of Carthage senior high school and graduated magna cum laude in chemistry from Missouri Southern State College–Joplin in 1980. She earned her Master's in chemistry from the University of Missouri-Rolla in 1982.

After graduation, Kavandi worked for Eagle-Picher Industries in Joplin, Missouri. She moved to Seattle, Washington to work for Boeing Aerospace in 1984. She supported numerous programs in the energy storage systems area. She was lead engineer of secondary power for the Short Range Attack Missile II, and principal technical staff representative in the development of thermal batteries for Sea Lance and the Lightweight Exo-Atmospheric Projectile. She also supported station, lunar and Mars base studies, Inertial Upper Stage, Advanced Orbital Transfer Vehicle, Get-Away Specials, Air Launched Cruise Missile, Minuteman, and Peacekeeper programs.

She earned a Ph.D. in Analytical Chemistry in 1990 from the University of Washington. Her work on pressure-indicating coatings resulted in two patents. Kavandi has logged over 33 days in space, has two children, is married to John Kavandi, and enjoys snow skiing, hiking, camping, horseback riding, windsurfing, flying, scuba diving, and piano.





### STELLAR AWARDS PRESENTER

Sharing in presenting the stellar awards again this year is astronaut James Reilly II, Ph.D. Selected 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.

After this flight, Reilly became the Astronaut Office lead on shuttle training. In July 2001, he flew on STS-104/Flight 7A, an assembly mission for the International Space Station (ISS). He performed three spacewalks to install the joint airlock. A veteran of over 517 hours in space, Reilly is currently assigned to the crew of STS-117, the fifth flight to the ISS after the shuttle's return to space. Concurrent with his crew assignment he is designated as payloads and procedures operations lead for the Astronaut Office ISS Branch.

James F. Reilly, II, Ph.D

After receiving his Bachelor of Science degree in 1977, 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. In 1979, he 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. Concurrent with his duties as an exploration geologist, he was actively involved in the application of new imaging technology for industrial applications in deep water engineering projects and biological research. As part of this work, Reilly spent approximately 22 days in deep submergence vehicles operated by Harbor Branch Oceanographic Institution and the US Navy.

Born in Mountain Home Air Force Base, Idaho, Reilly considers Mesquite, Texas, his hometown. He enjoys flying, skiing, photography, running, soccer, hunting and fishing.



### CONGRATULATIONS

### GLYNN LUNNEY

FOR YOUR STELLAR CONTRIBUTIONS To THE SPACE INDUSTRY











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### 2005 ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT NINETEENTH ANNUAL AWARDS BANQUET PROGRAM



Friday, April 22, 2005

6:00 RECEPTION Victoria Stone, pianist

7:00 WELCOME Floyd V. Bennett, Chairman, RNASA Foundation

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

NATIONAL ANTHEM

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

DINNER

8:15 OPENING VIDEO

MASTER OF CEREMONIES Miles O'Brien, CNN TV News

KEYNOTE SPEAKER
Hon. Tom DeLay, House Majority Leader

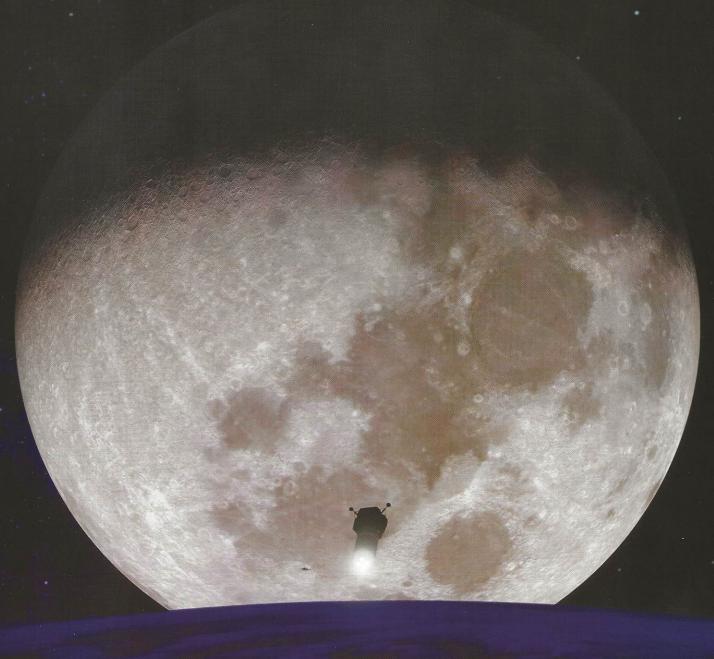
PRESENTATION OF STELLAR AWARDS
Dr. Janet L. Kavandi, Astronaut
Dr. James F. Reilly, Astronaut

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

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### STELLAR AWARD NOMINEES

### **EARLY CAREER NOMINEES**

Tara S. Angstadt of NASA Johnson Space Center - Technical excellence, hard work, dedication, and leadership as lead engineer for the Non-Toxic Auxiliary Propulsion Testbed project and in development of liquid oxygen attitude control systems for future spacecraft.

Joseph P. Arves, II of Lockheed Martin - Significant technical accomplishments in pioneering the development of hybrid propulsion for future launch vehicles and the successful flight test of a hybrid propulsion sounding rocket.

Edward J. Blalock of The Boeing Company, Rocketdyne Propulsion & Power - Expertise in the field of manufacturing complex propulsion hardware, that is key to successful transition to production, and for production processes and approaches to lower the cost of the RS-68 engine.

Jason R. Dake of NASA Johnson Space Center - Outstanding contribution to the International Space Station program in managing key components of the environmental control and life support system.

Jeffrey D. Donoughue of The Boeing Company - Outstanding leadership of the ISS electrical power system mission operations, and dedication to mentoring team members to ensure continuing effectiveness in supporting the on-orbit system.

**Steve G. Duran of NASA Johnson Space Center -** Significant technical contributions to NASA's technology efforts in leading the development of the Mini-AERCam flight software.

Michael S. Etchells of Science Applications International Corporation - Exceptional commitment to technical excellence and vigilance in assuring that the shuttle remote manipulator system is safe, reliable and ready to meet operational demands.

Michael K. Frazier of NASA Marshall Space Flight Center - Dedicated support in the fabrication of the Northrop Grumman composite cryogenic tank for the Next Generation Launch Technology Program.

James A. Furfaro of ATK Thiokol Inc. - Exceptional innovation and dedication in developing the solid rocket motor industry's first-ever direct measurement of propellant erosive burning characteristics, key in analyzing and testing the world's largest segmented solid rocket motor, ETM-3.

**2Lt. Eric J. Hansen of the United States Air Force Research Laboratory** - Leading the development of the miniaturized vibration isolation system to provide a stable platform for precision space imagery and communications applications.

Adam J. Hewko of The Boeing Company - Dedication and innovation resulting in space shuttle main engine ducts being ready to fly with only minimal visual inspection and with all assets remaining active for flight service.

Alex P. Kooney of Lockheed Martin - Outstanding leadership in testing cryo-ingestion effects on foam loss at the Space Shuttle external tank LH2 flange, and for implementation of Friction Stir welding on the external tank.

Wesley R. Martin of Lockheed Martin - Development of revolutionary tooling for space structures that will greatly reduce cost and enhance capability of future launch and space systems.

Andrew J. Miller of ARES Corporation - Outstanding support to the Office of Safety and Mission Assurance's effort to improve safety processes in the wake of the Columbia accident.

Casey F. Osterholt of The Boeing Company - Outstanding leadership in execution of EVA verification planning and Neutral Buoyancy Laboratory test support.

Holly E. Ridings of NASA Johnson Space Center - Exceptional level of leadership, professional responsibility, and technical expertise of the International Space Station Motion Control System Flight Control Group.

**Ryan C. Turner of ARES Corporation -** Service in an essential role for the International Space Station Probabilistic Risk Assessment, by identifying and resolving modeling shortfalls, applying the model to trade studies, and developing methods for enhanced consumables modeling.

Jerit A. Wendlandt of The Boeing Company, Rocketdyne Propulsion & Power - Outstanding technical support, initiative to design new tools for process improvement, and continuous flight safety and customer satisfaction focus and achievements.

### MIDDLE CAREER NOMINEES

**Gregory L. Anderson of ATK Thiokol Inc. -** Dedication, expertise and leadership in adhesive sciences related to multiple components of the reusable solid rocket motor.

Lora J. Bailey of NASA Johnson Space Center - Exceptional leadership of the development of equipment and procedures for conducting on-orbit repair of Space Shuttle thermal tiles.

Eric J. Becker of the United States Air Force Research Laboratory - On-going commitment to developing and demonstrating materials and processes for space flight systems, with a focus on materials for reusable space vehicles.

### STELLAR AWARD NOMINEES CONTINUED

Continued from page 16

**Michael E. Begley of The Boeing Company -** Significant expertise in guidance, navigation & control for International Space Station non-propulsive attitude control, and dynamic maneuvering for EVA and docking operations.

Bradley N. Bell of Titan Corporation - Demonstrated technical excellence in development of state-of-the-art 3D computer graphics rendering software and virtual reality (VR) technologies used to create highly effective and cost-efficient VR-based astronaut training, and visual systems for engineering analysis tools.

**Paul Benfield of ARES Corporation -** Outstanding leadership as the senior lead for ongoing work at Lockheed Martin both in space exploration/transportation and civil space areas.

Charles L. Bennett of NASA Goddard Space Flight Center

- Definitive measurement of the structure of the Big Bang, through mapping the cosmic microwave background radiation to unprecedented sensitivity and accuracy.

Patrick D. Blucker of the United States Air Force - Exceptional contributions to the DoD in the development of our nation's space lift capability, with exemplary leadership and vision in launch range financial management, policy development, and planning.

Louis D. Cazes of Science Applications International Corporation - Outstanding commitment, hard work, and professional technical excellence, providing invaluable insight and expertise in working and overseeing all phases of JSC Safety and Mission Assurance's response to the many investigative and working teams during the course of the Columbia investigation.

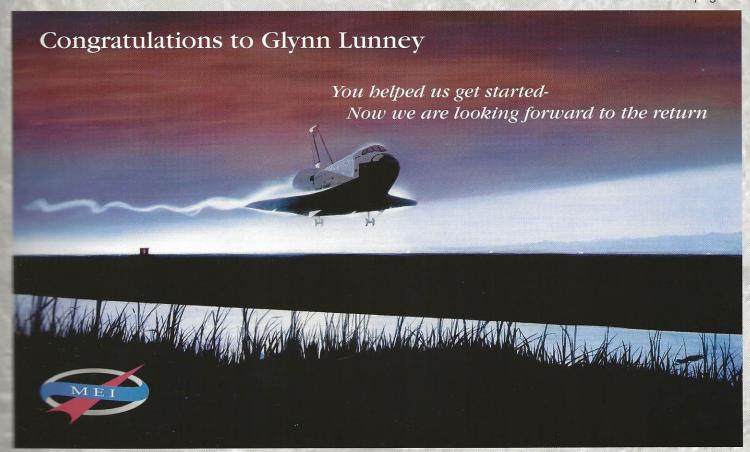
Lance A. Christopherson of ATK Thiokol Inc. - Exemplary dedication and performance that has been instrumental in the identification and mitigation of significant Space Shuttle booster thermal protection system concerns for Return-to-Flight.

Gary W. Cooper of The Boeing Company - Exceptional leadership and management of the International Space Station Software Development team, resulting in a high performance team that delivers quality products, delights the customer, and strives for continuous improvement.

Kim K. de Groh of NASA Glenn Research Center - Outstanding contributions to the understanding and enhancement of spacecraft materials durability, as well as exceptional mentoring and outreach efforts.

Michael A. DeFrancis of Science Applications International Corporation - Significant contributions to Orbiter Safety and Mission Assurance through initiative and commitment to technical excellence.

Continued on page 18





### STELLAR AWARD NOMINEES CONTINUED

Continued from page 17

Don E. Ewers of The Boeing Company, Rocketdyne Propulsion & Power - Dedication, skill, and expertise in working to allow the sharing of sensitive, but unclassified, data within Space Shuttle main engine processing at the Kennedy Space authorized user communities. Center since 1980, covering 113 missions of the Space Shuttle.

Rafael Garcia of NASA Johnson Space Center - Exemplary contributions to the continuing development of a wide range of flight systems for human space flight programs.

Michael L. Gilchrist, Jr. of the United States Air Force -Numerous outstanding contributions to the space operations and acquisition fields that will shape the future of space operations and military satellite communications.

Teresa Gomez of NASA Johnson Space Center -Outstanding contributions to the operations and management of the NASA astronaut selection process, with direct participation in the selection of 194 of the nation's astronauts.

Cynthia Grayson of ARES Corporation - Outstanding leadership in the payload safety management area for the ISS program.

Michael G. Hess of NASA Johnson Space Center -Exceptional leadership of the Mission Operations Directorate's through the most challenging period of Space Station Generation Launch Technology Program. assembly.

Donald W. Holder of NASA Marshall Space Flight Center -Outstanding technical leadership in development of the regenerative environmental control and life support air and water systems for the International Space Station, and personal dedication in resolving technical flight hardware issues.

Rick L. Howerton of The Boeing Company, Rocketdyne Propulsion & Power - Outstanding contributions to the revitalization of space nuclear power in the United States.

Timothy L. Huff of NASA Marshall Space Flight Center -Dedication and technical support for the Reusable Solid Rocket Motor Project.

Col. James C. Hutto, Jr. of the United States Air Force -Leadership and innovation in multiple fields including intercontinental ballistic missiles, satellite command and control, missile warning, and the development of the DoD's Space Professional corps.

Larry Isom of Hamilton Sundstrand - Visionary leadership in developing technologies and processes for titanium satellite propellant tanks.

Zachary Kantzes of ARES Corporation - Providing cuttingedge collaborative tools for supporting NASA programs &

processes, including Return-to-Flight & the OneNASA Transformation, and enhancing center-to-center communications

Jon M. Kirschenbaum of Lockheed Martin Space Systems Company - Extraordinary technical excellence in the development and operation of the Gravity Probe B space vehicle attitude and translation control system.

Craig A. Larson of The Boeing Company, Rocketdyne Propulsion & Power - Outstanding contributions to the Atlas and Delta expendable launch vehicle programs by providing exceptional technical support and leadership.

Robert Leeney of ARES Corporation - Outstanding risk management leadership in support of the ITT Spacelift Range System Contract.

Pamela L. Madera of United Space Alliance - Outstanding leadership in solving complex aerodynamic; thermal; structural; and guidance, navigation, and control problems; and providing solid rationale for safe human space flight.

William M. McMahon of NASA Marshall Space Flight Center - Exemplary leadership in the fabrication of the Northrop Neutral Buoyancy Laboratory and successful leadership Grumman composite cryogenic tank in support of the Next

> Glenn J. Miller of NASA Johnson Space Center - Outstanding technical and managerial contributions in ensuring the structural integrity of major systems on the Space Shuttle and International Space Station.

> Brian Y. Nakasone of The Boeing Company, Rocketdyne Propulsion & Power - Technical excellence in developing process improvements and enhancements to flight safety for the Space Shuttle main engines.

> Brian J. Pechi of The Boeing Company, Rocketdyne Propulsion & Power - Contributions to advances in material technologies and outstanding technical leadership in assuring the safety of the Space Shuttle main engines.

> Keith Presson of NASA Marshall Space Flight Center Recognized expertise within NASA on the active and passive thermal control systems in the Multi-Purpose Logistics module and the interactions between those systems and the International Space Station as well as the Shuttle orbiter.

> Gwenn Sandoz of Lockheed Martin Space Operations -Exceptional level of professional responsibility and technical leadership in support of human space life sciences research.

> > Continued next page



### RNASA Foundation Committee Members

Back L to R: Bill Geissler,
Richard Jackson, Dr. L. Jean
Walker, Bob Wren, Marianne
Dyson; Front L to R: Sheila Self, Bill
Taylor, Rodolfo Gonzales (Secretary), Floyd Bennett (Chairman),
Duane Ross, Vissett Sun. Not
pictured: Ann Charles, Gary
Johnson, Tim Kropp (Treasurer),
Jack Lister, Jennifer Mitchell, Frank
Perez, Bill Vantine, John Wilkins.

Photo by Robert
Markowitz.

### RNASA FOUNDATION

The Rotary National Award for Space Achievement (RNASA) Foundation was established in 1985 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. The RNASA Foundation's prestigious board of advisors (page 23) then vote to choose the winner (page 3-5). The confidential votes are tabulated by an independent accounting firm. The winner is presented with the national space trophy at the annual banquet celebration.

Stellar awards have become an increasingly important part of the annual RNASA banquet events. 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 are solicited in four categories: Early-career (to age 33), middle-career (age 34-50), late-career (over age 50), and teams. Nominations (pages 18-24) are reviewed and winners selected by a distinguished panel whose decisions are based on which accomplishments hold the greatest promise for furthering future successes in space.

All Stellar award nominees are invited for a special day of activities at Johnson Space Center followed by the evening's banquet where the winners are presented with trophies (page 22). This year's nominees were treated to a tour and special luncheon event with Apollo astronaut and 2000 trophy winner John Young who recently retired from NASA. The RNASA Foundation congratulates all the nominees for their hard work on behalf of our space program.

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.

### Continued from previous page

william L. Todd of United Space Alliance - Significant contributions to long-duration human spaceflight mission training and operations concepts, as project lead of NASA Extreme Environments for Mission Operations project utilizing the Aquarius undersea laboratory.

Rodolfo R. Valdez of Hamilton Sundstrand - Exceptional eadership, management, and dedication to the Shuttle program and the Mechanical Flight Control Return-to-Flight initiative.

**Stephen Vrana of GHG Corp.** - Outstanding commitment, and work, and professional technical excellence providing structural and mechanical engineering expertise to the structural & Mechanical Subsystem Problem Resolution team.

J. Britt Walters of NASA Johnson Space Center - Tireless efforts to coordinate the support of the Space and Life Sciences Directorate to the International Space Station and the Space Shuttle programs.

**Michael G. Wood of The Boeing Company -** Exemplary leadership of the design, development, and sustaining engineering of the International Space Station thermal & environmental control system.

Warren H. Woodworth of United Space Alliance - Outstanding creativity and leadership in solving complex orbiter structural problems enabling on-time accomplishment of major program milestones and avoiding significant rework costs.

Continued next page

### STELLAR AWARD NOMINEES CONTINUED

Continued from previous page

### LATE CAREER NOMINEES

Johnny G. Armstrong of the United States Air Force - Outstanding leadership that significantly contributed to the reinvigoration of Air Force participation in hypersonic technology development and test programs that help our nation break through a technology barrier to achieve highly reliable, highly reusable, less costly, and routine access to space.

Harold F. Battaglia The Boeing Company - Outstanding investigation, analysis, and resolution of multi-discipline engineering and technical issues to ensure continuing excellent International Space Station performance on orbit.

John W. Boyd of NASA Ames Research Center - Pioneering research in the design of unmanned, planetary exploration probes, unique vision and guiding leadership in numerous NASA programs, and service as a mentor, teacher, and spaceflight historian.

Douglas P. Bradley of The Boeing Company, Rocketdyne Propulsion & Power - Outstanding achievements and accomplishments in the areas of design, test and continued safe flight of the Space Shuttle and the Space Shuttle main engines and for contributions in the advancement of America's space program.

James R. Eyman of United Space Alliance - Outstanding leadership and management of critical design, development, production, and operations for NASA's Space Shuttle program, with a key focus on safety.

Joseph E. Genovese of Hamilton Sundstrand - Visionary leadership in advanced life support as a key enabler for the president's Space Exploration Initiative.

**David J. Homan of NASA Johnson Space Center** - Outstanding leadership in virtual reality simulation technology, providing integrated EVA and robotic training capability in support of the Space Shuttle and International Space Station programs.

Victor Jorgensen of ATK Thiokol Inc. - Lifetime achievement for twenty-five years of exceptional creativity, vision, innovation, and dedication in the development, fabrication and implementation of numerous tooling and technological improvements in support of high-quality reusable solid rocket motors for the Space Shuttle program.

Raymond C. Krise of The Boeing Company, Rocketdyne Propulsion & Power - Dedicated, exemplary support to the Atlas Expendable Launch Vehicle Program by providing technical direction to Rocketdyne's Atlas engines for 25 years.

Joseph Kwasnieski of The Boeing Company - Four decades of instrumental contributions to strengthening national security and advancing our scientific knowledge of the universe, with key roles in the critical assembly phase of the International Space Station.

Russell H. Morrison of The Boeing Company - Significant technical leadership and achievement on NASP, Kinetic Energy Weapons, and the ISS program, including recent work as the internal thermal control system manager solving chemistry and biological issues to support the ISS on-orbit system.

### Stephen F. Newton of NASA Marshall Space Flight Center

- Exceptional leadership in the development of program/ project management, systems engineering, and program control certification programs to assure qualified leadership in MSFC's programs and projects.

Fernando Ramos of The Boeing Company - Exceptional service in a key role to make critical EVA decisions and ensure that EVA tasks are performed in an efficient and effective manner.

Louis M. Santi of NASA Glenn Research Center - Exceptional leadership in development and validation of engine health management technologies in support of NASA missions.

Robert S. Strickland of The Boeing Company, Rocketdyne Propulsion & Power - Exceptional achievements in management of the verification and validation effort of the Space Shuttle main engine controller software to insure safe manned space flight, and outstanding accomplishments in NASA customer satisfaction.

Cynthia F. Wells of United Space Alliance - Lifetime of achievements and significant personal contributions in support of manned space flight operations from Apollo through ISS and beyond.

James A. Williams of The Boeing Company - Over four decades of contributions to manned and unmanned spaceflight in the design, development, production and launch of liquid rocket engine propulsion systems.

John W. Woodworth of ATK Thiokol Inc. - Exceptional dedication and excellence in his responsibility for the tailoring and control of the specific propellant formulations for every rocket motor in the entire history of the Space Shuttle solid rocket motor program.

### SPONSOR RECOGNITION

<u>Corporate Sponsors</u> Stellar Award Trophies – ATK Thiokol Propulsion Audio/Visual Production - Lockheed Martin Advanced Space Transportation (Denver) Omega Watch – Omega Dr. Lunney's Painting – SAIC

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United Space Alliance
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Thanks to Stellar Evaluators
Dr. Aaron Cohen
Dr. Christopher C. Kraft, Jr.
Dr. Glynn S. Lunney

Special Thanks
Hyatt Regency Houston
MRI Technologies
NASA Johnson Space Center

Credits

Program Book Text & Design by Marianne Dyson Cover Art by Pat Rawlings Printing by Minuteman Press - Bay Area Audio/Visual Production by Space City Films Production Advisor, Jeff Carr Photos from NASA unless otherwise noted



### STELLAR TEAM NOMINEES

7th Space Warning Squadron Upgraded Early Warning non-optimal circumstances at a remote field location to recover Radar Subject Matter Expert Team of the United States Air Force - Superior dedication, teamwork, and technical expertise developing ground-based midcourse defense operational capability to defeat missiles targeted against the Gravity Probe B Space Vehicle Leadership Team of the

14 Air Force Air and Space Operations Center Strategy Division of the United States Air Force - Significant enhancements to the Department of Defense's ability to command and control space forces in an effort to gain and maintain space superiority in support of national security objectives.

576th Flight Test Squadron Team Training Flight Team of the United States Air Force - Superior achievement in building the first-ever team-training flight-furthering success of the Joint Chiefs of Staff \$350 million Intercontinental Ballistic Missile Force Development and Evaluation flight test program.

Advanced Space Power Generation Group of the United States Air Force Research Laboratory - Leadership in advanced space power generation in efforts totaling over \$16M in the entire range of solar cell technology: multijunction, thinfilm, and quantum leap solar cell programs.

Ballistic Impact Team of NASA Glenn Research Center -Outstanding achievement and exceptional commitment in providing extensive critical experimental and analysis support to the ballistic impact engineering effort for NASA's Returnto-Flight Program.

Cosmic Hot Interstellar Plasma Spectrometer Satellite (CHIPSat) Spacecraft Team of SpaceDev - Successful implementation of the innovative CHIPSat microsatellite that has operated successfully on orbit for over two years with an instrument observing duty cycle greater than 98%.

Genesis Mission Recovery Documentation Team of NASA Johnson Space Center - Extraordinary performance under



and document the Genesis Mission Solar Wind scientific samples.

Lockheed Martin Space Systems Company - Exceptional leadership in the successful design, development, test, launch and on-orbit operation of the Gravity Probe B space vehicle.

Ground-based Electro-Optical Deep Space Surveillance Team of the United States Air Force - Substantially furthering the art and effectiveness of ground-based electro-optical deep space surveillance, enhancing the nation's capabilities in space control and situational awareness.

Houston and Moscow Space-to-Ground Interpreters Team of TechTrans International Inc. - Outstanding real-time interpretation of Russian and English voice communications between the ISS crews and mission control centers in Houston and Moscow

**Human Research Facility to Columbus Interface Test Team** of Lockheed Martin - Outstanding technical excellence, project planning and task execution in support of the Human Research Facility to Columbus Interface test.

In-Space Propulsion Technology Projects, Aerocapture Technology Team of NASA Marshall Space Flight Center -Continuous outstanding management of multiple investments advancing aerocapture technologies enabling significantly greater science returns on future missions to many of the Solar System's most desirable destinations.

Intercontinental Ballistic Missile Maintenance Division of the United States Air Force - Performing depot-level maintenance for ICBMs at an unprecedented level, generating a \$3M profit plus a savings of \$23K per ICBM that was returned directly to the war fighter.

ISS Crew Health Care Systems Logistics and Resupply Team of Lockheed Martin - Outstanding innovation, technical excellence and dedication in ensuring the International Space Station crew and vehicle are equipped with the necessary inventory and maintenance capability to sustain the planned duration.

ISS Passive Thermal Control System Attitude Assessment Team of The Boeing Company - Outstanding contributions in performing thermal analyses of ISS alternate attitudes in support of both proposed attitude excursions and potential loss of attitude control scenarios.

ISS Space Power Electronics Laboratory Asset Move Test Team of The Boeing Company - Accomplishing the move of

Continued on page 24

### ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT BOARD OF ADVISORS

George W. S. Abbey Jim Albaugh Arnold D. Aldrich Edward C. "Pete" Aldridge, Jr. Dr. Lew Allen Neil A. Armstrona Norman R. Augustine Maj. Gen. Roy D. Bridges, Jr. (Ret.) Donald J. Campbell Mark E. Carreau Capt. Eugene Cernan, USN (Ret.) Vance D. Coffman Dr. Aaron Cohen Richard O. Covey Capt. Robert Crippen, USN (Ret.) Hon. Tom DeLay Ronald D. Dittemore Alphonso V. Diaz Cort Durocher Joe H. Engle Roy S. Estess Dr. Maxime A. Faget Hon. Donald Fugua Hon. John H. Glenn, Jr. Gerald D. Griffin Henry W. Hartsfield, Jr. Jim Hartz George G. Hauser Shepard W. Hill Tommy W. Holloway Jay Honeycutt

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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, along with portraits of the trophy recipients, at Space Center Houston.



### STELLAR TEAM NOMINEES CONTINUED

Continued from page 22

on time and under budget, while maintaining available detection of critical damage to the orbiter. resources to support on-orbit anomaly resolution.

providing a high fidelity, ground-based, test capability for the propulsion systems on flight-like hardware. duration of the ISS program.

- Dedication, expert knowledge, rapid responsiveness, and

sustained commitment to resolving issues affecting the International Space Station's air quality and crew safety.

Mars Drill Team of NASA Johnson Space Center -Outstanding innovation and technical excellence in developing and demonstrating the Prototype Mars Drill, and using the talents of Houston's 'Oil Patch' and space industries to pioneer unique technology for future human exploration.

Mars Exploration Rover Team of NASA Jet Propulsion Laboratory - Successfully landing twin robotic spacecraft on Mars and subsequently conducting world class scientific exploration at two distinct sites.

Material Fingerprinting Team of Lockheed Martin Exceptional performance in the enhancement of materials fingerprinting in support of the Space Shuttle external tank program.

Materials Data Analysis Team of Lockheed Martin Exceptional performance in establishing and maintaining a Material Data Analysis team to statistically assure material consistency in human rated (Shuttle program external tank) programs.

Mission Evaluation Room Development Team of the Lockheed Martin Space Systems Company - Design, development and installation of the upgraded Shuttle Mission Space Warfare Center Warfighting Integration Division of Evaluation Room in the JSC Mission Control Center that was completed on schedule and within budget.

Multi-Mission Radioisotope Thermoelectric Generator Team of The Boeing Company, Rocketdyne Propulsion & Power - Successful development of the multi-mission radioisotope thermoelectric generator, a keystone power system for future space exploration.

Marshall Space Flight Center - Developing and implementing technical staff in the pursuit of safe space exploration.

Orbiter Boom Sensor System Project of NASA Johnson Space Center - Development, design, and certification of an significant space station power electronics laboratory assets inspection system for Space Shuttle crews to use in the

Propulsion Integrated Vehicle Health Management ISS Systems Integration Laboratory (ISIL) Completion Technology Experiment Team of NASA Glenn Research Team of The Boeing Company - Successful planning and Center - Successful demonstration of real-time execution of execution of the ISIL completion laboratory improvements advanced diagnostics technology for space transportation

Reinforced Carbon-Carbon Repair Team of ATK Thiokol Major Constituent Analyzer Team of Hamilton Sundstrand Inc. - Relentless dedication and exceptional innovation in the development of an on-orbit reinforced carbon-carbon wing leading edge repair capability for the Space Shuttle orbiter.

> Reusable Solid Rocket Motor (RSRM) Chemical Fingerprinting Program of ATK Thiokol Inc. - Outstanding vision, dedication, professionalism, and technical excellence in developing the RSRM chemical fingerprinting program established to detect and understand subtle raw material variations.

> Reusable Solid Rocket Motor ETM-3 Project Team of ATK Thiokol Inc. - Exceptional vision, innovation, and dedication in defining and executing a model systems engineering and project management approach leading to an on-schedule. within cost, and most significantly, successful full-scale static test of a 5-segment, 1.4 million-pound, RSRM margin test motor, ETM-3.

> Space Nursing Society - On-going contributions to health care for those living and working in space, and for public education about the contributions of the nursing profession to the space program.

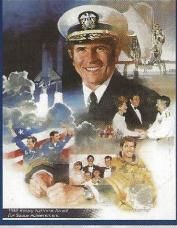
> Space Warfare Center Spectral Imagery Applications Team of the United States Air Force - Significant contributions to the future of military space-based intelligence, surveillance and reconnaissance capabilities by developing advanced hyper-spectral and multi-spectral technologies.

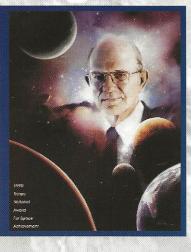
> the United States Air Force - Forging the path for operationalizing space situational awareness capabilities through outstanding leadership in development, integration, and exercise design and execution.

> Tribology Team of NASA Marshall Space Flight Center -Investigating and testing the life of body flap actuator bearings to ensure safety of the Space shuttle and crew.

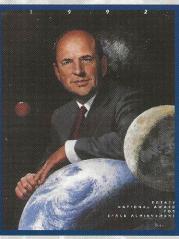
NASA Technical Standards Program Team of NASA Wilkinson Microwave Anisotropy Probe Team of NASA Goddard Space Flight Center - Definitive measurement of an outstanding and innovative Technical Standards Initiative the structure of the Big Bang, through mapping the cosmic and suite of tools to support the agency's engineering and microwave background radiation to unprecedented sensitivity and accuracy.

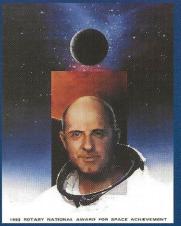














## PREVIOUS NATIONAL SPACE TROPHY WINNERS

Left to right; top row:

1987 Dr. Maxime Faget 1988 Hon. Don Fuqua 1989 V.Adm. Richard Truly 1990 Dr. Lew Allen

Left to right; second row:

1991 Aaron Cohen 1992 Norman Augustine 1993 Lt. Gen. Thomas Stafford 1994 E.C. "Pete" Aldridge



### Space City Films Salutes Glynn Lunney

Recipient of the 2005 National Space Trophy

### Space City Films, Inc.

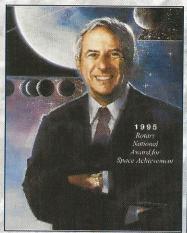
Digital Motion Pictures for the 21st Cent

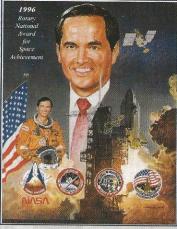
17000 El Camino Real, Suite 210B Houston, Texas, USA 77058

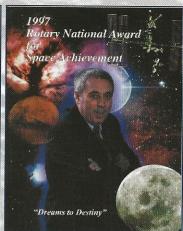
281.480.9669 voice 281.480.9695 fax www.spacecityfilms.com

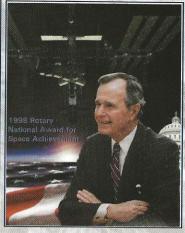


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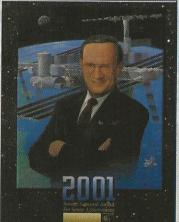


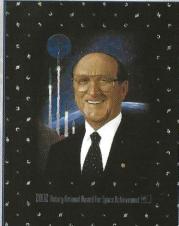




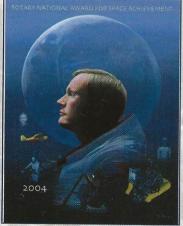












About the 2005 Artist, Pat Rawlings

The original art on the cover was created by well-known space artist Pat Rawlings. Employed by SAIC, Rawlings painted the portrait of the first National Space Trophy winner, Dr. Max Faget, and also those of Aaron Cohen, Tommy Holloway, Dr. George Mueller, Roy Estess, and Neil Armstrong. Accuracy and visual impact are both important to Mr. Rawlings. "I'm sometimes asked if I feel limited, subject-wise, as a space artist," said Rawlings. "Most other artists are limited to just one planet, I have the entire universe to draw upon." His artwork appears in the SAIC calendars, in major space and scientific publications, and broadcast media around the world. Look for this year's painting at Space Center Houston during the next year.

# PREVIOUS NATIONAL SPACE TROPHY WINNERS

continued

Left to right; top row:

1995 Dan Goldin 1996 Robert L. Crippen 1997 George W.S. Abbey 1998 Pres. George H.W. Bush

Left to right; second row:

1999 Dr. Christopher C. Kraft, Jr. 2000 Capt. John W. Young 2001 Tommy Holloway 2002 Dr. George E. Mueller

Left to right; third row:

2003 Roy S. Estess 2004 Neil A. Armstrong



Flight Director Glynn Lunney in the Mission Control Center during Apollo 13

# commitment leadership

Congratulations to Glynn Lunney, recipient of the 2005 National Space Trophy

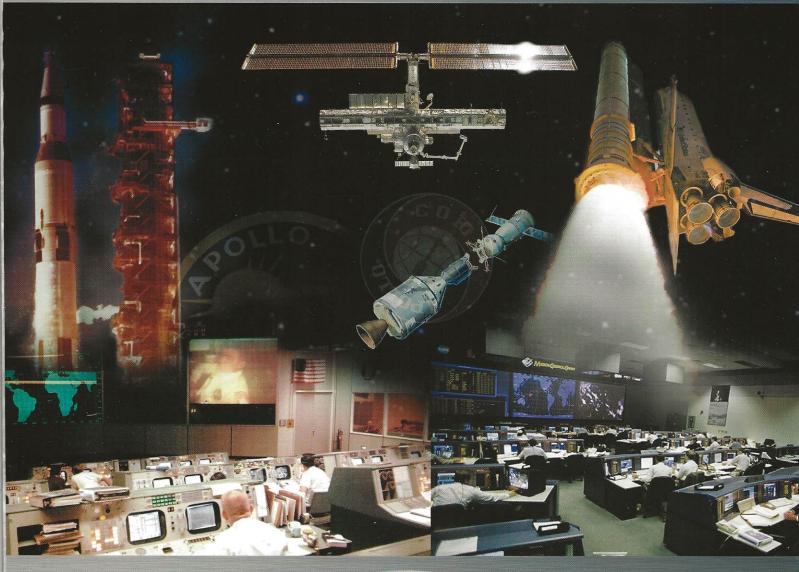
For over 40 years, Glynn Lunney has been a leader and advocate for the human exploration of space. Glynn's leadership was instrumental in achieving the first human exploration goal of safely reaching and returning from the Moon. Glynn built upon the success of the Apollo Program to pioneer international cooperation in space that led to the Space Shuttle and the International Space Station. Booz Allen Hamilton honors his leadership and commitment to human space flight and pledges our continued support to America's vision for space exploration.

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# Congratulations to Glynn Lunney - Making it happen for over 40 years.





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