

ROTARY NATIONAL AWARD
FOR SPACE ACHIEVEMENT





GWYNNE SHOTWELL

NATIONAL SPACE TROPHY RECIPIENT



The RNASA Foundation is pleased to recognize Gwynne Shotwell, President and COO of SpaceX, as the 2023 National Space Trophy Recipient.

NOMINATED

Shotwell was nominated for the award by Rob Meyerson, founder and CEO of Delalune Space. In recommending Shotwell, Meyerson remarked, "Under Shotwell's leadership, SpaceX continues to inspire the world, capture the imagination of the next generation of scientists, and advance space technology." He went on to describe Shotwell as a "strong leader, engineer, and trusted partner to NASA, the Air Force, the National Security community, and commercial customers."

GROWING UP

Shotwell grew up north of Chicago in Libertyville, Illinois, the second of three daughters born to a physician and an artist. From an early age, she had an interest in machines and engines. In high school, she played varsity basketball, was a member of the cheerleading team, and excelled academically.



As a teenager, she and her mother attended a Society of Women Engineers panel at the Illinois Institute of Technology. She has credited a speech she heard at that event with inspiring her to pursue a career in mechanical engineering.

EDUCATION AND EARLY CAREER

Shotwell graduated with honors from Northwestern University with a Bachelor of Science degree in Mechanical Engineering and a Master of Science degree in Applied Mathematics.



She began her aerospace career at The Aerospace Corporation in 1988, where she spent more than ten years in space systems engineering, technology, and project management. She was promoted to chief engineer of an MLV-class satellite program, managed a landmark study for the Federal Aviation Administration (FAA) on commercial space transportation, and completed an extensive analysis of space policy for NASA's future investment in space transportation.



She was then recruited to Microcosm's Space Systems Division, where she worked for four years, serving on the executive committee and directing corporate business development.

SPACE X

Shotwell joined SpaceX in 2002 as its first Vice President of Business Development. As one of the company's first dozen employees, she was initially responsible for selling launches to commercial and government customers before the company had operational rockets.



Shotwell became President and Chief Operating Officer of SpaceX in 2008. She is responsible for day-to-day operations, including production, launch, sales, mission management, finance, and management of all customer and strategic relations to support company growth. As President, she leads more than 10,000 employees.



During her tenure, SpaceX has gained worldwide attention for a series of historic milestones. In 2008, its Falcon 1 rocket was the first privately developed liquid fuel rocket to successfully reach Earth orbit. In 2012, SpaceX's Dragon spacecraft became the first commercial spacecraft to deliver cargo to and from the International Space Station, and it continues to be the only private company capable of returning a spacecraft from low-Earth orbit.



In 2018, Falcon Heavy made its first launch to orbit. With more than 5 million pounds of thrust at liftoff, Falcon Heavy is one of the most capable rockets flying. SpaceX's fleet of reusable Falcon launch vehicles comprises the first and only orbital class rockets capable of re-flight, completing more than 200 missions to date.

In 2020, SpaceX helped NASA return human spaceflight to the United States, and in 2021 NASA selected SpaceX to develop the Starship human landing system to help return astronauts to the surface of the Moon. SpaceX is also deploying its global Starlink network, which is licensed to operate on all seven continents and is providing service to more than 1 million customers around the world.

BOARD POSITIONS, ACHIEVEMENTS, AND AWARDS

Shotwell served on the California Space Authority Board of Directors and its executive committee from 2004 to 2011. In 2014 she was appointed to the Export-Import Bank of the United States Advisory Committee and the FAA Management Advisory Council. Shotwell joined the Polaris Industries Board of Directors in 2019.

She has received the World Technology Award for Individual Achievement in Space, was inducted into the Women in Technology International Hall of Fame, and is an elected fellow of the American Institute of Aeronautics and Astronautics. She has authored dozens of papers on a variety of space-related subjects. Through leadership in both corporate and external programs, Ms. Shotwell has helped raise millions for STEM education programs reaching thousands of students nationwide.

FAMILY

Shotwell is married to an engineer at NASA's Jet Propulsion Laboratory and has a son and a daughter. In her spare time, she enjoys reading, and spending time at their family ranch.



ROB MEYERSON

NATIONAL SPACE TROPHY PRESENTER



The RNASA Foundation is pleased to welcome Rob Meyerson as the 2023 National Space Trophy Presenter.

Rob Meyerson is the founder and CEO of Delalune Space, a consulting company focused on the aerospace, mobility, technology, and investment sectors. He is an angel investor, advisor, and/or director for companies including Hermeus, Axiom Space, Hadrian, ABL Space, Sceye, Starfish Space, and others. Rob is also an active mentor and volunteers for both the Brooke Owens and Matthew Isakowitz Fellowship programs.

Rob is the former President of Blue Origin, and grew the company from its founding into a more than 1500-person organization between 2003 and 2018. Under Rob's leadership, Blue Origin developed the New Shepard system for suborbital human and research flights, a liquid rocket engine business that provides boost propulsion for the ULA Vulcan launch vehicle, the New Glenn launch vehicle and the company vision for humanity in space; including the Blue Moon lunar lander, human spacecraft, habitats and in-space tugs.

Prior to joining Blue, Rob was a Senior Manager at Kistler Aerospace where he led design, development, and production of the Landing and Thermal Protection Subsystems for the K-1 two-stage Reusable Launch Vehicle (RLV). Rob began his career as an aerodynamicist at NASA's Johnson Space Center (JSC) where he contributed to various spacecraft programs, including Space Shuttle, International Space Station (ISS), Assured Crew Return Vehicle (ACRV) and X-38/Crew Rescue Vehicle (CRV). Rob served as the Space Shuttle Orbiter Aerodynamics Subsystem Manager, responsible for commit-to-flight and flight test objectives on more than 15 flights, and for the aerodynamic development of the Orbiter Drag Parachute subsystem.

Born in Detroit, Michigan Rob earned a B.S. degree in aerospace engineering from the University of Michigan. Rob was a cooperative education student at NASA's Johnson Space Center while in school. While working as an engineer at NASA, Rob earned a master's degree in industrial engineering from the University of Houston.

He is an AIAA Fellow, a Trustee of the Museum of Flight in Seattle and a member of the University of Michigan College of Engineering Leadership Advisory Board. For accomplishments at Blue Origin, Rob and his team were awarded the Robert J. Collier trophy from the National Aeronautic Association in 2016, and Rob was awarded the Space Flight Award by the American Astronautical Society in 2017.



At the Center of Defense and Discovery

Aerojet Rocketdyne
congratulates all Stellar
Award nominees and
recipients for their
contributions to our
nation's space program.

AEROJET
ROCKETDYNE
rocket.com



JOHN ZARRELLA

EMCEE



The RNASA Foundation is pleased to welcome former CNN correspondent John Zarrella as the emcee of the 2023 RNASA gala.

Born and raised in Miami Beach, Zarrella earned a bachelors degree in English from St. Thomas University. His career began in 1975 working as a television reporter in Miami, Baltimore and Atlanta.

Zarrella's career with CNN began in 1981 as an executive producer at the world headquarters in Atlanta. From there, he was named CNN Miami's correspondent when the bureau was opened in 1983. For over thirty years, Zarrella covered the U.S. space program, including 75 shuttle launches, John Glenn's return to space, the Mars Pathfinder mission, the Challenger and Columbia tragedies and Atlantis' final flight.

In 2009, Zarrella wrote and hosted Counting Down Cady, a year-long series for CNN's American Morning. The show followed Astronaut Cady Coleman as she prepared for Expedition 26/27 to the ISS. He went on to write and host the one-hour documentary Beyond Atlantis: The Next Frontier chronicling the Space Shuttle Program and NASA's future.

Aside from his space beat, Zarrella has covered thousands of stories including every major hurricane to hit Florida, the 1985 hijacking of TWA flight 847 in Beirut, the Mexico City earthquake in 1985, the 1995 bombing of the Murrah Federal Building in Oklahoma City, Air France's crash in Brazil, the Elian Gonzalez story in Miami and the Gulf Oil Spill in 2010 which went on to win the Peabody Award.

He opened JZ Media in 2014 which focuses on news consulting, media training for interviews, video production and voice over work. He has covered topics such as the Orion launch, coral reef restorations, the Ad Astra Rocket Company and even hunting for treasure from Spanish galleons.

Zarrella's has been honored with many awards including two Emmy Awards for his coverage for Katrina, Oklahoma City, Pacific Sunami, and the Presidential election coverage. He has also been honored with the 2013 Media Award from the National Space Club Florida, the 2009 Media Award from the National Space Club in Huntsville and two National Hurricane Conference Media Awards.

He is married to Robin Zarrella with four children, and enjoys fishing, golf, and gardening. In 2016, John and his son, Michael, opened Zarrella's Italian and Wood Fired Pizza Restaurant on Astronaut Boulevard in Cape Canaveral, Florida.



Zarrella serving as Master of Ceremonies at the 2015 RNASA gala (RNASA Photo)

Northrop Grumman
Congratulates
Gwynne Shotwell
**2023 National
Space Trophy
Recipient**





MICHAEL SUFFREDINI

FEATURED SPEAKER



The RNASA Foundation is pleased to welcome Axiom Space President & CEO Michael Suffredini as tonight's featured speaker.

After earning his bachelor's degree in aerospace engineering from The University of Texas at Austin in 1983, Mr. Suffredini joined NASA in 1989 where he spent the next 26 years of his accomplished career. Known throughout the space industry as "Suff", he served as the International Space Station Program Manager from 2005 until his retirement from NASA in 2015. During his tenure, Mr. Suffredini led the development, launch, assembly and operation of dozens of ISS elements to the 460 metric ton orbiting lab. As the largest international peacetime project in human history, Mr. Suffredini directed the 15-nation ISS Program until construction was completed in 2011. From there, he transitioned the program into one of research and commercial utilization.

As a unique authority in the development of space stations, Mr. Suffredini embarked on a new journey in 2016 when he co-founded Axiom Space, a Houston-based company that is building the world's first commercial space station. Axiom Station's first module dubbed Hab One is scheduled to launch in 2025 and will include crew quarters and a research facility. As the intended successor to the ISS, Axiom Space bid on and was awarded the NASA contract to provide at least one habitable commercial module to attach to the ISS. This arrangement will allow a seamless, cost-effective transition that will continue to facilitate research and innovative development for the private and public sector. Axiom Space's first crewed mission launched four Ax-1 astronauts to the ISS on April 8, 2022, aboard the SpaceX Crew Dragon and returned safely 17 days later on April 25. The Ax-2 crew is readying for its launch to the ISS in early May 2023.

Mr. Suffredini has been honored with many awards including the President of the United States' Rank of Meritorious Executive and Rank of Distinguished Executive, NASA Distinguished Service medal, the NASA Outstanding Leadership medal, the National Air and Space Museum Trophy and the Yuri Gagarin Medal, and the Cockrell School of Engineering Distinguished Alumni award.



Artist rendering of the future Axiom Station (Axiom Space Image)

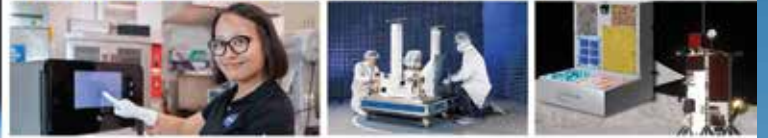


**Congratulations
2023 National Space Trophy Winner**

Gwynne Shotwell

President and COO of SpaceX

Aegis Aerospace Inc. also commends all of the Stellar Award nominees on their dedication and contributions to our nation's space program.



INNOVATE | EXPLORE | PROTECT

CREATING INNOVATIVE AND PRACTICAL SOLUTIONS TO FULFILL DEFENSE AND SPACE NEEDS

Aegis Aerospace provides commercial, turn-key space services, space system development, and engineering services for the government, commercial space, and defense industries.



AEGISAERO.COM

Ms. Gwynne Shotwell

President and COO of SpaceX

Congratulations!

For being selected as the 2023 National Space Trophy recipient!

We thank you for your outstanding leadership and dedication to the advancement of space exploration.

We would also like to congratulate all of the 2023 Stellar award recipients!



Safety and Mission Assurance

Program Integration

Risk Management

Systems Engineering

Information Technology

Engineering Analysis



Creating Opportunities Through Risk Insight



BOB HINES

STELLAR AWARDS PRESENTER



The RNASA Foundation is pleased to welcome Astronaut Bob Hines as a stellar awards presenter.

Raised in Pennsylvania, Hines earned a Bachelor of Science degree in aerospace engineering from Boston University, and a Master of Science in flight test engineering following graduation from the U.S. Air Force (USAF) Test Pilot School in 2008. He later earned a Master of Science degree in aerospace engineering from the University of Alabama in 2010.

Hines received his commission as U.S. Air Force (USAF) Second Lieutenant in 1999. He attended pilot training at Columbus AFB where he later served as a T-37 instructor pilot. He went on to fly missions for the Royal Air Force (RAF) in Lakenheath, United Kingdom in support of NATO. While there, Bob was chosen to attend the USAF Test Pilot School as part of class 07B. Following training at Edwards AFB, Hines was assigned to Elgin AFB where he served as a F-15C/D/E Experimental Test Pilot, and flew the U 28 on an overseas deployment. Hines went on to join the Air Force Reserves while acting as a Flight Test Pilot for the FAA. While there, he was a Wing Plans Officer for the 147th Fighter Wing in Fort Worth, TX and the first F-15 Developmental Test Program Director with the 84th Test and Evaluation Squadron at Eglin AFB.

Hines was selected as an Astronaut candidate in 2017. Following ASCAN training, he served as the astronaut technical lead for Orion in the Exploration Office. He went on to serve as handling qualities and flight control specialist for the Human Lander Program.

On April 27, 2022 Hines' served as flight engineer aboard the inaugural flight of NASA's SpaceX Crew Dragon "Freedom" spacecraft for Expedition 67/68. During his 170 days in space, Hines and his crewmates conducted hundreds of hours of research aboard the ISS.

Hines is a member of Society of Experimental Test Pilots and Member of American Institute of Aeronautics and Astronautics. He has been honored with numerous awards including the NASA Stuart Present Flight Achievement Award, U.S. Air Force Bobby Bond Memorial Aviator Award, Meritorious Service Medal (2), Air Medal (2), Aerial Achievement Medal (2), Meritorious Unit Award, Outstanding Unit Award (12), Combat Readiness Medal, Afghanistan Campaign Medal Iraq Campaign Medal, Iraq Campaign Medal, and Nuclear Deterrence Operations Service Medal.



Hines packing cargo inside the SpaceX Dragon resupply ship before it undocked from the ISS on Aug. 19, 2022 (NASA Photo)



KATE RUBINS

STELLAR AWARDS PRESENTER



The RNASA Foundation is pleased to welcome Astronaut Kate Rubins as a stellar awards presenter.

Raised in Napa, California, Rubins earned a Bachelor of Science degree in Molecular Biology from the University of California, San Diego in 1999 and a Ph.D. in Cancer Biology in 2005 from Stanford University Medical School Biochemistry Department and Microbiology and Immunology Department. Her undergraduate studies focused on HIV-1 integration in the Infectious Diseases Laboratory at the Salk Institute for Biological Studies. She went on to help develop the first model of smallpox infection with the U.S. Army Medical Research Institute of Infectious Diseases and the Centers for Disease Control and Prevention. Rubins is a major in the U.S. Army and serves in the U.S. Army Reserves.

Rubins served as a Principal investigator for the Whitehead Institute for Biomedical Research in Cambridge, Massachusetts where she directed 14 researchers studying viral diseases affecting Central and West Africa. She later traveled to the Democratic Republic of Congo to conduct research and supervise study sites.

Rubins most recently served aboard the International Space Station (ISS) as flight engineer on Expedition 63/64, returning in April 2021. Across her two long-duration spaceflights, she has four spacewalks and a total of 300 days in space, the fourth most days in space by a U.S. female astronaut. Selected by NASA in July 2009 as a member of the 20th astronaut class, Rubins launched on her first mission in July, 2016. This was the first test flight of a new Soyuz MS spacecraft, launching from the Baikonur Cosmodrome in Kazakhstan. During both long duration missions on ISS, Rubins served not only as the researcher but as a research subject as she and her international crew helped conduct hundreds of scientific experiments, including research on molecular biology, human physiology and combustion physics. Rubins was the first person to sequence DNA in space. She also grew heart cells (cardiomyocytes) in cell culture, and performed quantitative, real-time PCR and microbiome experiments in the orbiting lab.



Rubins prepares for her Soyuz launch to the ISS on October 14, 2020 (NASA Photo)



AGENDA

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

FRIDAY, APRIL 28, 2023

Houston Hyatt Regency Imperial Ballroom

6:00 RECEPTION

7:00 WELCOME

Rodolfo González, Chairman, RNASA Foundation

PRESENTATION OF THE COLORS

Clear Brook High School, Jr. ROTC

NATIONAL ANTHEM

Danny Myers

INVOCATION

Reverend Dr. Will Rushing, Pastor University Baptist Church

DINNER

8:15

YEAR-IN-REVIEW FILM

Space City Films

EMCEE

John Zarrella

FEATURED SPEAKER

Michael Suffredini

PRESENTATION OF STELLAR AWARDS

Bob Hines and Kate Rubins

PRESENTATION OF NATIONAL SPACE TROPHY TO GWYNNE SHOTWELL

Rob Meyerson

PRESENTATION OF THE OMEGA WATCH

General Thomas Stafford

RECOGNITION OF SPONSORS AND CLOSING

KBR congratulates 2023 National Space Trophy Recipient Gwynne Shotwell and all the Stellar Award nominees. Thank you for advancing the future of our nation's space program.



// AD ASTRA PER ASPERA //



THE TEAM BEHIND THE MISSION™
YOUR PARTNER IN SPACE

[KBR.COM/SPACE](https://www.kbr.com/space)

DEFENSE | INTEL | SPACE | TECHNOLOGY



THOMAS STAFFORD

OMEGA WATCH PRESENTER




Once again, OMEGA has generously donated a watch to the recipient of the National Space Trophy. The watch is presented by Lt. Gen. Thomas P. Stafford, USAF (Ret.), the recipient of the Trophy in 1993, and a member of the RNASA Board of Advisors. From Weatherford, Oklahoma, Stafford graduated from the U.S. Naval Academy in 1952 and became an Air Force fighter and test pilot. He was the pilot for Gemini 6 in 1965 and the commander for Gemini 9 the next year. Stafford commanded Apollo 10 in 1969 and Apollo-Soyuz in 1975. He left NASA to command the Air Force Flight Test Center, and in 1978 became Deputy Chief of Staff at Air Force Headquarters in D.C. He retired in 1979, and co-founded the consulting firm of Stafford, Burke, and Hecker in Alexandria, Virginia. In 1990, Stafford chaired the team that prepared "America at the Threshold" to advise NASA on returning to the Moon and exploring Mars.



Purpose Driven.
Enduring Commitment.

ASRC Federal congratulates the RNASA Awardees for their outstanding achievements through creating awareness and advancing the future of space!

 asrcfederal.com

SPONSORS

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

CORPORATE TABLE SPONSORS

Aegis Aerospace, Inc.
Aerojet Rocketdyne
The Aerospace Corporation
All Points Logistics
ARES Corporation
ASRC Federal
Axiom Space
Barrios Technology
Bastion Technologies, Inc.
Blue Origin
The Boeing Company
CACI International
Collins Aerospace
Deloitte
Draper
ERC
Ethos
GeoControl Systems Inc
ICON
Jacobs
JES Tech
KBR
Leidos
Lockheed Martin
MORI Associates
MRI Technologies
Nanoracks
Northrop Grumman
Oceaneering International
Paragon Space Development
SAIC
SpaceX
TEAGUE
TTTech North America, Inc.
United Launch Alliance

V2X

Vericon Technical Services
Wellby Financial

CREDITS

Live Event and Multimedia Production by
Space City Films
Program book content by Lindsey Cousins
Art & Design by Lindsey Cousins
Cover art by Pat Rawlings
Printing by Printing for Less

OMEGA WATCH

OMEGA Watches

STELLAR AWARD PENS

Fisher Space Pens

STELLAR AWARD EVALUATION PANEL

Michael Coats
Kevin Chilton
Eileen Collins
Sandra Magnus
Charles Elachi
Michael Hawes

SPECIAL THANKS

Irene Chan
MRI Technologies
NASA Johnson Space Center
Hyatt Regency Houston
Space Center Rotary Club
Jeffrey Carr
Veronica McGregor

RNASA FOUNDATION

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT



All Rows L to R: Third Row: Rubik Sheth, Tim Kropp (Treasurer), Rodolfo Gonzalez (President), Gary Johnson, John Branch (Space Center Rotary President, 2016)

Second Row: Jimmy Young, Stan Galanski (Space Center Rotary President, 2023), Duane Ross, Lindsey Cousins, Shelley Baccus, Jenny Devolites, Linda Singleton, Beth Fischer

First Row: Maria Montemayor (Secretary), Delia Stephens, Mike Porterfield (Space Center Rotary President, 2020), Norm Knight, Jeff Siders, Alan Wylie, Bob Wren (an RNASA Foundation Founder, 1984 and Space Center Rotary President, 1986)

Not Pictured: Jeff Carr, Stephanie Castillo, Irene Chan, Nellie Chappell-White, Steven Fredrickson, Susan Gomez, Trey Hall, Marcus Havican, Zach Holliday, Raymond Moore (Space Center Rotary President, 2021), Denise Navarro, Matt Ondler, Frank Perez, Jayant Ramakrishnan, Kevin Repa, Branelle Rodriguez, Celina Rogers, Daryl Schuck, Daryl Smith, Bill Taylor (Vice President)



The Rotary National Award for Space Achievement (RNASA) Foundation was founded in 1985 to organize and coordinate an annual event to recognize outstanding achievements in space and create greater public awareness of the benefits of space exploration. Each year, the Foundation presents the National Space Trophy (NST) to an outstanding American who has made major contributions to our nation's space program. Nominations for the NST are solicited each fall from leaders in government, industry, and professional organizations. The winner is selected by a vote of the RNASA's Board of Advisors that includes current and former NASA center directors, leaders of aerospace corporations, space journalists, and previous award recipients. Since 1989, the RNASA Foundation has also recognized the heroes of the space program with Stellar Awards for individual and team achievements.

The RNASA Foundation is a nonprofit organization governed by a Board of Directors, a majority of whom must be members in good standing of the Space Center Rotary (SCR) club. The RNASA Committee (pictured) serves the board and includes the directors, officers, corporate representatives, event coordinators, and dedicated Rotarians.

Excess funds remaining after event expenses are donated to space-related programs, such as the NASA Aerospace Scholars Program.

The RNASA Foundation is grateful for the enthusiasm and support it receives from the aerospace industry, educational organizations, NASA, and the Department of Defense that allows the continued recognition of outstanding achievements in space exploration.

PREVIOUS NST RECIPIENTS



TOP ROW (L to R)

- 1987 - Maxime Faget
- 1988 - Don Fuqua
- 1989 - Richard Truly
- 1990 - Lew Allen
- 1991 - Aaron Cohen
- 1992 - Norman Augustine

SECOND ROW (L to R)

- 1993 - Thomas Stafford
- 1994 - Edward Aldridge

- 1995 - Daniel Goldin
- 1996 - Robert Crippen
- 1997 - George Abbey
- 1998 - George H.W. Bush

THIRD ROW (L to R)

- 1999 - Christopher Kraft
- 2000 - John Young
- 2001 - Tommy Holloway
- 2002 - George Mueller
- 2003 - Roy Estess

FOURTH ROW (L to R)

- 2004 - Neil Armstrong
- 2005 - Glynn Lunney
- 2006 - Eileen Collins
- 2007 - Eugene Kranz
- 2008 - Eugene Cernan
- 2009 - Michael Griffin
- 2010 - Bill Gerstenmaier
- 2011 - Kevin Chilton

- 2012 - Michael Coats
- 2013 - Kay Bailey Hutchison
- 2014 - Charles Bolden
- 2015 - Robert Cabana
- 2016 - Charles Elachi

SIXTH ROW (L to R)

- 2017 - John Grunsfeld
- 2018 - Robert Lightfoot
- 2019 - David Thompson
- 2020/2022 - Ellen Ochoa



STELLAR AWARDS PANEL

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

Each fall, the RNASA Foundation solicits Stellar Award nominations of space industry workers and teams deserving of special recognition. All nominees are treated to an insiders' tour of Johnson Space Center (JSC) and an awards luncheon with a distinguished speaker. Nominees receive framed certificates of recognition and blue ribbons to wear at the evening banquet so that guests can identify them and offer their congratulations. The winners of the Stellar Awards are chosen by an esteemed panel of judges based on which accomplishments will have the most impact on future space activities and that meet the criteria of recognizing "heroes of the space program."



MICHAEL COATS is a member of the RNASA Board of Advisors and is serving his seventh year on the Stellar Award Evaluation panel. The former astronaut and former NASA Johnson Space Center Director received the 2012 National Space Trophy. Coats flew 315 combat missions in Southeast Asia from the USS Kitty Hawk from 1970 to 1972. Following test pilot training in 1974, he was project officer and test pilot for A-7 aircraft until selection as a flight instructor at the U.S. Naval Test Pilot School in 1976. He was selected as an astronaut in 1978 and piloted STS 41D in 1984, the maiden flight of Discovery. He went on to command STS-29 and STS-39. Between 1991 and 2005, Coats worked for Loral Space Information Systems, Lockheed Martin Missiles and Space and Lockheed Martin Space Systems. He was the Director of JSC from 2005 until 2012. Under his leadership, JSC implemented over 80 partnerships and hosted summits and job fairs to help displaced workers. To help NASA attract and retain future leaders, Coats instituted the Program Project Management Development, the Space Systems Engineering Development, and the Project Leadership programs. He was inducted into the Astronaut Hall of Fame in 2007. He is now the proud full-time "Pops" to three adorable and perfect granddaughters.



KEVIN CHILTON is a member of the RNASA Board of Advisors who is serving his seventh year on the Stellar Award Evaluation panel. Chilton was selected as an astronaut in 1987. He piloted STS-49 and STS-59 and commanded STS-76 in 1996. He served as deputy program manager for the ISS until leaving NASA in 1998. From 2007 to 2011, he commanded the U.S. Strategic Command overseeing operations for all U.S. forces conducting strategic deterrence and the Department of Defense's space and cyberspace operations. He retired from the Air Force in 2011 and was the recipient of the 2011 National Space Trophy.



EILEEN COLLINS is a member of the RNASA Board of Advisors and is serving her sixth year on the Stellar Award Evaluation panel. In 1995, Collins became the first woman to pilot a shuttle, serving on Discovery's STS-63 mission. Four years later in 1999, she became NASA's first female shuttle commander, leading Columbia on a mission to deploy the Chandra X-Ray Observatory. She has been a T-38 instructor pilot and a C-141 commander and instructor. From 1986 to 1989, Collins taught math at the USAF Academy in Colorado and was a T-41 instructor pilot. In 1990, she graduated from the AF Test Pilot School and subsequently began astronaut training at JSC. She has logged more than 6,500 hours in 30 different types of aircraft and spent more than 38 days in space. Collins serves on several boards and advisory panels, is a motivational speaker, and recently authored "Through the Glass Ceiling to the Stars." She was the recipient of the RNASA's 2006 National Space Trophy.



SANDRA MAGNUS is a member of the RNASA Board of Advisors serving her third year on the Stellar Award Evaluation panel. Magnus was selected for the Astronaut Corp in 1996 and is a veteran of three space flights, including STS-135, the space shuttles final flight. She served as flight engineer for Expedition 18 when she spent four months aboard the ISS. She went on to serve as Exploration Systems Mission Directorate, Deputy Chief of the Astronaut Office, the Executive Director of the American Institute of Aeronautics and Astronautics and Deputy Director for Engineering under the Secretary of Defense for Research and Engineering. She retired from the government in 2020. Dr. Magnus currently serves as the Chief Engineer for the Traffic Coordination System for Space being developed by the Office of Space Commerce in the Department of Commerce and remains a part time Professor of the Practice at Georgia Tech. Dr. Magnus is a recipient of the NASA Space Flight Medal and the NASA Exceptional Service Medal.



CHARLES ELACHI is a member of the RNASA Board of Advisors serving his second year on the Stellar Award Evaluation panel. Elachi was born in Lebanon in 1947. Joining JPL in 1970, he led the science team for the Shuttle Imaging Radar A, Shuttle Imaging Radar C and Shuttle Imaging Radar C/X-SAR and Shuttle Radar Topography missions flown on NASA's Space Shuttles during the 1980s and 1990s. In 1988, Dr. Elachi was named to JPL's Executive Council as the director for the Laboratory's Office of Space Science and Instruments. In May 2001, Dr. Elachi was named Director of JPL, beginning 15 years of leadership of the Laboratory. During his tenure, 31 spacecraft and major instruments have been launched on missions in solar system and Mars exploration, Earth science and space-based astronomy. JPL's missions in solar system exploration during this time included Genesis, the MIRO instrument on the European Space Agency's Rosetta orbiter, Deep Impact, Dawn, Diviner, JUNO and Grail, Mars Exploration Rovers Spirit, Opportunity, and Curiosity, and many others. In addition to his JPL role, Dr. Elachi has served as Vice President of the California Institute of Technology and is a member of the UCLA Sciences Board of Visitors. Dr. Elachi and his wife, Valerie Gifford, have two daughters, Joanna and Lauren. He enjoys skiing, reading and traveling.



MICHAEL HAWES is a member of the RNASA Board of Advisors serving his first year on the Stellar Award Evaluation Panel. Hawes joined NASA's Johnson Space Center in 1978 where he served as Payload Officer in the Shuttle Mission Control Center for several early Space Shuttle missions. After 10 years at JSC, he went on to spend the next 23 years at NASA HQ in Washington DC serving as Deputy Associate Administrator, International Space Station (ISS), Program Director for the ISS, Associate Administrator for Independent Program and Cost Evaluation (IPCE), and Associate Administrator for Program Integration in the Office of Space Operations. In 2011, Hawes transitioned to the private sector and in 2014 he was selected to lead Lockheed Martin's Orion Program. Hawes retired in December 2022.



EARLY CAREER

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

Gabriella I. Blackner of Aerojet Rocketdyne - Outstanding technical leadership of the Advanced Electric Propulsion System Hall thruster development and qualification program.

Capt. Michelle C. Boivin of United States Space Force - Outstanding leadership of the development of a two threat-representative two-stage ICBMs to conduct Office of the Secretary of Defense (OSD) technical risk reduction missions and accelerate technology to the warfighter.

Lt. Nicholas A. Braga of United States Space Force - Excellence in roles and responsibilities as a junior officer via distinctive accomplishments within the realm of Assured Access to Space, Missile Warning and supporting our partner nations in their space endeavors.

Michael Cabal of Aerojet Rocketdyne - Significant contributions to the restart of the NASA Space Launch System RS-25 core stage propulsion high pressure turbomachinery manufacturing and affordability improvements.

Amy M. Caldwell of The Boeing Company - Outstanding initiative and commitment to crew safety and success of the International Space Station (ISS) Environmental Controls and Life Support System (ECLSS).

Caitlin A. Eatman of Leidos - Outstanding contributions integral to the development and success of software tools that have increased the efficiency and accuracy of the International Space Station (ISS) resupply missions and that are the bases for Exploration programs.

Omar A. Elhams of United States Space Force - Successful leadership of the audit and approval of five GPS III Space Vehicles, supporting position, navigation, and timing communications for the warfighter.

Angelica D. Garcia of CACI - Exemplary performance in the enhancement of NASA's Simplified Aid For EVA Rescue (SAFER) simulation and in leading a team of engineers in developing a state-of-the-art simulation of lunar surface visuals supporting the crewed Artemis missions.



2022 Stellar Award Winners - Early Career - L to R: Bresnik (presenting), Brenton S. Taft, Dr. Daniel J. Kim, Abigail E. Sherriff, Matthew Richmond, Timothy E. Sauerhoefer, Courtney E. Mario, Jessica Meir (presenting) (RNASA photo, 2022)

Lt. Jacob D. Henry of United States Space Force - Successful management of three classified missions worth \$1.3B that met eight of eight National Space Policy goals.

Andrew Irby of Paragon Space Development Corporation - Exceptional service to the exploration and development of space by strong contributions in design and operation of ECLSS for two operational spacecraft at two separate companies including the HALO program at Paragon.

Alec N. Jacobs of NASA Kennedy Space Center - Significant knowledge and expertise of launch processing and integration leading to the development of critical human launch capability at Launch Complex 40, mitigating the impacts to crew rotation missions to the ISS from Launch Complex 39 by other launch systems in the vicinity.

Josiah M. Johnson of NASA Marshall Space Flight Center - Exceptional dedication and technical excellence in architecting space ground systems technology, furthering the next generation of ground support strategies, and for developing the technology roadmap for achieving success in NASA's mission to the moon, Mars, and beyond.

Christopher S. Kochling of The Boeing Company - Exemplary performance and leadership in identifying and resolving a pre-existing critical safety flight software issue.

Nicholas G. Makarowski of KBR - Leadership and technical excellence in improving Robotic Operations and training for NASA Astronauts and Flight Controllers.

Dr. James S. McCabe of NASA Johnson Space Center - Impressive technical acumen, innovative thinking, excellent communication skills, passion for human space flight, and being the consummate unselfish team player.

Joshua Merritt of Collins Aerospace - Outstanding contributions to analysis techniques and hardware testing excellence in human spaceflight.

Dr. Andrew J. Metcalf of United States Space Force - Outstanding contributions in developing new spacecraft Positioning, Navigation, and Timing (PNT) and communication technologies and capabilities.

Capt. Andrew P. Nicoletti of United States Space Force - Exceptional leadership of the development of two, three-stage ICBM (Intercontinental Ballistic

Missile) launch missions to conduct Air Force Global Strike Command re-entry vehicle technical risk reduction tests, and the development of a new launch service provider for an orbital mission.

Jordan Olliges of Blue Origin, LLC. - Outstanding contributions building the road to space through technology and leadership, from development of reusable BE-3PM rocket engine to New Glenn's BE-3U upper stage engine.

Katherine Peters of Paragon Space Development Corporation - Outstanding leadership, technical contributions, and execution of test programs in human spaceflight and environmental control and life support systems in support of returning humans to the moon.

Jorge Rivera of GeoControl Systems Inc. - Outstanding contributions to Application Specific Avionics and Electronics development to assist in Astronaut safety on the International Space Station.

Daniel J. Rueda of Lockheed Martin - Technical and leadership excellence supporting the Artemis I mission Flight Software and Mission Evaluation Room teams.

Tyler Schott of Blue Origin, LLC. - Outstanding achievement and leadership in development and execution of the BE-4 integrated engine test development, pre-qualification, qualification, and engine acceptance campaigns resulting in successful delivery of flight engines.

Clayton Sigler of ARES Corporation - Exceptional contributions to the Exploration Ground Systems (EGS) Space Launch System (SLS) Team, including exemplary leadership of Artemis I flight hardware integration efforts and advanced planning for Artemis II and beyond.

Mary B. H. Stoller of Paragon Space Development Corporation - Outstanding M&P engineering leadership on the NG HALO ECLSS Program, providing material expertise for the first station being design to orbit the moon.

Michael Tzimourakas of Northrop Grumman - Exceptional dedication and desire to become a key contributor for human spaceflight endeavors at Northrop Grumman.



MID CAREER

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

Dennis L. Arnold of NASA Johnson Space Center - Outstanding leadership of the International Space Station Problem Investigation Team resolving the water in the helmet incident that occurred during Extra-Vehicular Activity 80.

Lt. Col. Justin L. Beltz of United States Space Force - Successful piloting of launch and logistics operations for a National Reconnaissance Office space launch test mission launch vehicle, a USSF Tactically Responsive Space mission, an Office of the Secretary of Defense mission and an Air Force Global Strike Command launch missile.

Heather R. Bergman of NASA Johnson Space Center - Exceptional leadership to develop and certify hardware as part of the EVA-80 Water in the Helmet Mitigation team.

Maj. Chad J. Brenner of United States Space Force - Outstanding leadership and tenacity as veteran space professional, propelling teams

and programs to deliver critical cutting-edge capabilities to the warfighter.

Lt. Col. Matthew J. Budde of ARES Corporation - Exemplary career contributions to NASA and Air Force spaceflight culminating in exceptional integration and implementation of Mission Management Team activities at the KSC Launch Control Center and JSC Mission Control Center for Artemis I.

David Coan of The Aerospace Corporation - Outstanding leadership and exceptional contributions to Artemis lunar surface mission and exploration EVA analog testing in a dynamic human spaceflight environment.

Elvia Cortes of United States Space Force - Tireless effort to drive the Protected Tactical SATCOM (PTS) program since inception in 2019, enabling launch of two satellites scheduled for late 2024 and early 2025 to deliver the vital PTS anti-jam capability that warfighters need on the front lines, in close proximity to adversary jammers.



2022 Stellar Award Winners - Mid Career - L to R: Jessica Meir (presenting), Jennifer Deuling, Ana L. Lopez, Dr. Michael J. Starks, Paul M. Brower, Christopher C. Delnero, BreeAnn Edris, Randy Bresnik (presenting) (RNASA photo, 2022)

Lt. Matthew J. Crawford of United States Space Force - Outstanding development and leadership of a Missile Defense Agency target launch vehicle mission valued at \$65M, and piloting of the propulsion program for the Rocket Systems Launch Program \$30M rapid launch mission.

Nathaniel T. De Koninck of SAIC - Outstanding support in developing and implementing the operational support structure for NASA's Common Exploration Systems Development (CESD) Artemis I flight, including developing innovative processes and training, ensuring CESD Safety and Mission Assurance (SMA) operational support for the Artemis I flight was well prepared for the flight.

Audrey D. Dunegan of The Boeing Company - Exceptional judgment and leadership as International Space Station (ISS) Mission Evaluation Room (MER) Manager, including leadership during critical on orbit anomalies as demonstrated during NG-18 Cygnus cargo vehicle anomaly solar array deployment.

Damon Erb of Lockheed Martin - Technical excellence and exceptional leadership across the entire Spacecraft Mechanical Systems organization to certify all subsystems of the Orion Spacecraft for the Artemis I mission.

Miriam Fedorchak of Aerojet Rocketdyne - Successful career progression from expert structural engineer to senior manager and Orion Main Engine (OME) program analysis integrator.

Matthew J. Gault of The Boeing Company - Outstanding leadership for the International Space Station (ISS) Integrated Logistics team.

Stephen Herrera of Aerojet Rocketdyne - Exceptional technical excellence as a Manufacturing Engineer at Aerojet Rocketdyne.

Nicholas Howse of Blue Origin, LLC. - Outstanding technical leadership in the design, development, testing, qualification, and certification of the BE-4 controller system for use on the next generation of American orbital rockets.

Jaclyn L. Kagey of KBR - Technical excellence and leadership in extravehicular activity operations, resulting in numerous successful spacewalks, and preparation for exploration lunar surface operations.

Dr. Steven S. Laurie of KBR - Excellence and innovation furthering the understanding of Spaceflight Associated Neuro-ocular Syndrome (SANS) and cardiopulmonary disciplines.

Emma Lehnhardt of NASA Johnson Space Center - Superior efforts, going above and beyond managing the Gateway Program Planning and Control (PP&C) organization through the formulation phase of the Gateway Program.

Dr. Teems E. Lovett of CACI - Outstanding leadership and technical excellence in spacecraft software and data architecture integrating complex Lunar Gateway modules into a single highly autonomous vehicle.

Katherine T. Ludwig of Northrop Grumman - Outstanding leadership in the design of the Habitation and Logistics Outpost (HALO) module for the lunar Gateway station.

Ajay Ludwig of Northrop Grumman - Outstanding leadership of Cygnus thermal engineering for recurring CRS missions and new development efforts.

Dr. Wellesley E. Pereira of United States Space Force - Outstanding contributions to developing new intelligence, surveillance, and reconnaissance (ISR) & missile warning technologies and capabilities.

Eduardo A. Roeschel of NASA Johnson Space Center - Outstanding leadership of NASA's Extravehicular Mobility Unit (EMU) team through concurrent major failure investigations.

Felipe J. Saucedo of The Boeing Company - Outstanding leadership and flexibility in developing and executing plans for protection and efficient operation of ISS Solar Arrays.

William D. Schmidl of The Boeing Company - Outstanding leadership in International Space Station Space Environments analysis in external contamination, plasma/spacecraft charging, ionizing radiation effects, and acoustics.

Sarah Sheviakov of Blue Origin, LLC. - Exceptional contributions and technical leadership in the development and certification of the BE-4 for next generation of American orbital rockets.

Craig M. Stanton of The Boeing Company - Outstanding achievement in Additive Manufacturing and Virtual/Augmented Reality, and re-inventing how we think about building and training through imagination and inspiration.

Jerit A. Wendlandt of Aerojet Rocketdyne - Outstanding contributions and years of technical excellence in SSME/RS-25 systems analysis and engine operations.



LATE CAREER

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

Mark G. Adams of KBR - Exceptional leadership in keeping flight crews and vehicles safe during NASA's human space flight operations.

Gordon M. Andrews of LZ Technology - Exceptional contributions as an Emmy Award-Winning Producer, communicator and masterful storyteller, creating impactful media that educates and inspires audiences on the benefits and wonderment of space exploration.

Eric M. Barcon of NASA Kennedy Space Center - Exceptional contributions to the Artemis I mission for program requirements documentation and automated support requirements system management.

Michael E. Begley of Lockheed Martin - Outstanding technical excellence and exceptional leadership of Guidance, Navigation and Control (GNC) Systems.

Kimberly Benfield of ARES Corporation - Exceptional contributions to the human rating of the upper stage of the Space Launch System (SLS), the Interim Cryogenic Propulsion Stage (ICPS), for the Artemis II mission.

Marc Bouffard of Aerojet Rocketdyne - Dedicated service during 35 years of development of propulsion control science and technology enabling human space exploration.

Jeffrey A. Boxell of KBR - Exceptional dedication, hard work, and technical excellence in furthering the use of Internet Protocols for ground communications.

John Casani of United Launch Alliance - Outstanding program leadership of the Interim Cryogenic Propulsion Stage, leading to its success, including for the Artemis I launch.

Michael A. Defrancis of SAIC - Instrumental contributions in establishing Electrical, Electronic, and Electromechanical (EEE) parts requirements and processes for the Commercial Crew Program service contract and in the review of hundreds of Electronic Parts Approval Requests to ensure the quality of parts used for the new human rated spacecraft.

JoElla Delheimer of Northrop Grumman - Outstanding leadership and implementation of the Science Facilities and Operations in support of



2022 Stellar Award Winners - Late Career - L to R: Randy Bresnik (presenting), Bonnie Hattersley, Mark Riedel, Mark A. Zaffetti, Steven Stich, Jessica Meir (presenting).
Not shown: Kenneth D. Ryan, Karl A. Wefers (*RNASA photo, 2022*)

Cygnus in support of the Commercial Resupply Services (CRS) of the International Space Station (ISS), providing a customer focused approach.

Robert Douglas of The Boeing Company - Outstanding work designing Test Support Equipment hardware for the NASA Docking System for both Block 1 (ISS) and Block 2 (Artemis).

Paul Doyle of Charles Stark Draper Laboratory - Outstanding leadership of the Space Launch System (SLS) flight software development.

William D. Dwyer of NASA Johnson Space Center - Outstanding risk and business management expertise to NASA's EVA, Robotics, and Crew Operations Division.

John R. Elieson of Aerojet Rocketdyne - Career excellence for 37 years in development and fielding of Human Space and Exploration Systems.

David Etter of Collins Aerospace - Outstanding career contributions to Extravehicular Mobility Unit systems engineering.

Barry Finger of Paragon Space Development Corporation - Exceptional leadership and technical contributions to advance human spaceflight for over 30 years in the ECLSS arena, contributing to successes on the ISS, Bigelow Aerospace Genesis I and II spacecraft, Orion, Boeing CST-100 Starliner, Paragon StratEx Mission, Inspiration Mars and the Northrop Grumman HALO program.

Thomas H. Freeman of United States Space Force - Successful piloting of the Rocket Systems Launch Program launch and logistics operations for a National Reconnaissance Office space launch test mission launch vehicle, a USSF Tactically Responsive Space mission, an Office of the Secretary of Defense mission and an Air Force Global Strike Command launch mission.

Israel Garza of The Boeing Company - Extraordinary solar array power generation and power quality analysis leadership and support for the International Space Station Electrical Power System Team.

Ben D. Greene of NASA Johnson Space Center - Significant contributions across all phases of EVA suit life cycle for both ISS and Artemis missions.

Kevin G. Hawes of Collins Aerospace - Exceptional electrical design/troubleshooting support contributions to multiple Collins Aerospace motor controller projects for the International Space Station and Deep Space programs.

William A. Hoskins of Aerojet Rocketdyne - Invaluable work on the NEXT-C ion engine, which was recently demonstrated aboard NASA's Double Asteroid Redirect Technology (DART) mission.

Rodney A. Houser of United States Space Force - Outstanding leadership in advancing the Global Positioning System through acquisitions, satellite operations, launch, and ground control sustainment over 32 years.

Joan Ibert of KBR - Tireless career dedication to the U.S. space program and its team members, providing technical expertise and leadership skills enabling past, present and future success.

Stephen D. Jayne of The Boeing Company - Continued outstanding GN&C leadership and performance on multiple human space flight programs including the Space Shuttle and Boeing Starliner.

Lt. Col. Lindley N. Johnson of NASA Headquarters - Outstanding leadership and early vision that helped establish planetary defense.

Teresa M. Kulakowski of Collins Aerospace - Outstanding electrical design contributions to the Collins Aerospace life support systems for the International Space Station and other space programs.

Vincent T. Leger of KBR - Distinguished leadership and contributions to the NASA mission that have made a significant impact for health and performance in many programs.

Rob McKnight of Northrop Grumman - Long-term technical leadership in the development of the Cygnus Spacecraft and execution of the recurring missions for Commercial Resupply Services (CRS) to the International Space Station (ISS).

Enrique Moeller of Barrios - Outstanding contributions critical to the quality, safety and performance of the Commercial Crew Program, and preparation of aerial delivery platforms for both the Orion and Commercial Crew Program.

Angel Montalvo of Leidos - Outstanding contributions as project Manager for the Nanoracks Airlock trash bag development and certification project.

Dr. Alison A. Nordt of Lockheed Martin - Exceptional engineering and technical leadership to develop complex systems for space science missions that advance knowledge in Earth and planetary sciences, heliophysics, and astrophysics.

Timothy R. North of The Boeing Company - Outstanding numerous contributions to spacecraft power systems and battery technology.

Terri Puckett of The Boeing Company - Outstanding contributions that have significantly contributed to the past and future successes of our nations human space flight programs.

Jose A. Rivera of United States Space Force - Successful leadership of the Department of Defense (DoD) aging surveillance, mission assurance and storage of 504 de-activated Intercontinental Ballistic Missile (ICBM) rocket motors.

Mahmoud Sanjak of Jacobs - Outstanding commitment to safety, technical excellence and mission success in development of NASA avionics systems.

Dr. Ashwani K. Sharma of United States Space Force - Exceptional contributions to developing new spacecraft rad-hard electronics and focal plane array technologies and capabilities.

Deneen M. Taylor of NASA Johnson Space Center - Significant contributions to the safe continued operations of the International Space Station and Commercial Crew Program.

Victoriano Z. Untalan of NASA Johnson Space Center - Outstanding contributions to human spaceflight as the Branch Chief for the Design and Analysis Branch.

Dr. Stacie Williams of USAF Office of Scientific Research - Exemplary technical and managerial leadership in fundamental research focused on Space Domain Awareness and National Space Sciences for the DoD.

Dr. Scott J. Wood of NASA Johnson Space Center - Outstanding scientific and operational accomplishments in understanding and mitigating sensorimotor risk in human space flight.



BOEING



**To the innovators
who have made
an impact**

Congratulations to this year's distinguished RNASA Foundation's National Space Trophy award winner and all the outstanding Stellar Award winners and nominees who have made major contributions to our nation's space program.



STELLAR TEAM

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

1st Range Operations Squadron of United States Space Force - Outstanding teamwork in managing the world's busiest spaceport with a diverse and talented team of 73 military and government service professionals.

AA-14 Electrical Power System Orbital Replacement Units Test Support Equipment Team of The Boeing Company - Outstanding effort in the development and implementation of the modernized Orbital Replacement Units (ORU) test capability enabling the extension of ISS operations.

Aerojet Rocketdyne Artemis I Propulsion and Hardware Team of Aerojet Rocketdyne - Exceptional hardware and propulsion support of the historic 25-day Artemis I mission.

Artemis I NASA & Industry Communications Team - Outstanding teamwork by communications professionals from NASA, Aerojet Rocketdyne, Boeing, Jacobs, Lockheed Martin and Northrop Grumman to disseminate information, build momentum and excitement for NASA's historic Artemis I mission to the Moon, inspiring millions of people around the world with exceptional storytelling through STEM engagement, imagery, social media and news features.

BE-4 (Blue Engine 4) Team of Blue Origin, LLC. - Successful delivery of the first U.S. developed 550,000 lbf ox-rich staged combustion engine from Blue Origin to United Launch Alliance (ULA), paving the way for the next generation of American orbital rockets.

Callisto Technology Demonstration Team of Lockheed Martin - Significant "first-of-its-kind" achievement for human space flight technology by successfully demonstrating a next-generation crew interface system, driving advances in commercial payload integration, deep-space network operations, and human-machine interaction.

Centaur V Integrated Fluids System Test Team of United Launch Alliance and NASA Marshall Space Flight Center - Exceptional teamwork in recreating launch conditions to test the next-generation Centaur V upper stage.

Closely Spaced Objects Team of United States Space Force - Successful implementation of a novel Adaptive Optics system on a 1-m class telescope, discovering a new binary star and proving a 40x increase in detection of space adversarial threats.



2022 Stellar Award Winners - Team - L to R: Dr. Jessica Meir (presenting), Michael Campion (Houston Support Group Multipurpose Laboratory Module Troubleshooting Team), Maj. Travis Pond (Innovation and Prototype Division), Lucas Milgiorini (ISS Reboost Team), Morgan Van Arsdall (Hubble Side Swap Anomaly Team), Jennifer Hammond (ISS Mission Evaluation Room Managers), Randy Bresnik (presenting), Not shown: Enterprise Engineering and Integration Team (RNASA photo, 2022)

Commercial Crew Program Launch Vehicle SpaceX Falcon 9 Team of SpaceX and NASA Kennedy Space Center - Outstanding contributions to the certification of the SpaceX Falcon 9 Launch Vehicle for 5x reuse, enabling multi-mission transportation of crew to the International Space Station.

Crew 3 Team of NASA Johnson Space Center - Outstanding teamwork and support during the first Axiom-1 mission to the ISS.

Crew Module Uprighting System Base Tether Development and Delivery Team of Oceaneering International, Inc. - Outstanding technical excellence in the re-development of Base Tethers for Orion's Crew Module Uprighting System and timely delivery of systems to support Artemis missions.

DART (Double Asteroid Redirection Test) Propulsion Team of Aerojet Rocketdyne - Outstanding achievement in developing the Chemical/Electrical propulsion system used successfully on the DART mission to divert an asteroid using kinetic energy.

Dragon 5x Reuse Certification Team of NASA Johnson Space Center - Outstanding contributions to the certification of the SpaceX Crew Dragon spacecraft for 5x reuse.

GRAVI-T Team of NASA Johnson Space Center - Exceptional innovation with the Space Station Remote Manipulating System (CanadaArm2) Flight Controller and Astronaut Training using Virtual Reality.

Hack-A-Sat Team of United States Space Force - Exceptional contribution to the discovery and solution of space system cybersecurity challenges by challenging hackers from around the world to focus their skills and creativity.

Integration Branch of United States Space Force - Outstanding leadership of architecture development, technology insertion, and capability development for a Secretary of Defense directed communications enterprise worth \$7 billion.

International Space Station (ISS) O2 Generator System/Life Support Rack (OGS/LSR) Relocation Team of The Boeing Company - Excellence in planning and safely completing the ISS Oxygen Generator System/Life Support Rack Relocation enabling Tech Demo implementation.

Jacobs Artemis I LH2 Replenish Valve Issue Resolution Team - Extraordinary efforts to resolve a hydrogen replenish valve leak while fueling the upper stage of the Space Launch System rocket during the Artemis I launch countdown, enabling the successful liftoff of the mission.

KBR US Extravehicular Activity (EVA) 80 Extravehicular Mobility Unit (EMU) Processing Team - Successful identification of the source of anomalous water in the EVA helmet and ensuring safe and successful EVA operations for the future.

Kennedy Space Center Weather Team - Exceptional initiative, vision, and excellence in protecting NASA people, property, and assets from weather affecting their success.

Lockheed Martin Soft Goods Development/Burst Test Team of Lockheed Martin - Revolutionary advancements in soft goods materials design and manufacturing to ensure human safety and comfort in future orbital or surface systems habitats.

Lucy Solar Array Anomaly Team of Lockheed Martin and NASA Goddard Space Flight Center - Extraordinary efforts to investigate root cause of the Lucy Solar array deployment anomaly, resolve issues during flight, and successfully deploy the array to meet mission science objectives.

Mars Rodwell Experiment Team of The Aerospace Corporation and the U.S. Army Cold Regions Research and Engineering Laboratory - Outstanding technical excellence in development and validation of the Rodriguez Well water extraction technique for use on future human Mars missions, opening new avenues for selecting landing sites and establishing a sustainable human presence.

Mobile User Objective System (MUOS) Service Life Extension Team of United States Space Force - Outstanding contributions to the Acquisition Strategy for Service Life Extension of Narrowband Satellite Communications Space and Ground Segments.

NASA Docking System Block 1 Development Team of The Boeing Company - Exceptional qualities of a high performing development and production team, including technical excellence, creative problem solving, acceptance of technological and programmatic challenges, flexibility, professionalism, and the highest commitment to quality.

Orion Program Artemis 1 Mission Team of Lockheed Martin and NASA Johnson Space Center - Successful completion of the first mission around the Moon and back for a human-rated spacecraft since 1972, serving as the first step to return humans back to the surface of the Moon and beyond.

Project DARAC (Data Acquisition, Recording and Controls) Team of Jacobs - Successful design, development and implementation of the 64-bit Data Acquisition, Recording and Controls system for the Crew and Thermal Systems chambers.

RL10C-X Manufacturing Team of Aerojet Rocketdyne - Exceptional performance in the manufacturing of the new generation of additive RL10 Engines in support of future Human Space and Exploration Systems.

Rocket Systems Launch Program Team of United States Space Force - Outstanding team accomplishments in directly piloted launch and logistics operations for a National Reconnaissance Office (NRO) space launch test mission launch vehicle, a USSF Tac-

tically Responsive Space (TacRS) mission, an Office of the Secretary of Defense mission and an Air Force Global Strike Command (AFGSC) launch mission.

SAIC Safety & Mission Assurance Flight Safety Office Team of SAIC - Significant contributions to Human Spaceflight crew safety and mission success by conducting independent assessments and developing unique products to aid NASA management in making risk-based decisions, including processing large amounts of data into concise infographics that assist users in understanding large, complex issues.

SANS Team of NASA Johnson Space Center - Exceptional achievement in performing novel investigations to understand the risk and develop countermeasures for Space Missions.

Space Lasercom Team of United States Space Force - Successful demonstration of new satellite laser communications technologies and capabilities on nine ground and space experiments for our National Defense Strategy.

Space Systems Command Small Launch & Targets Division of United States Space Force - Outstanding team accomplishments in directly leading the DoD aging surveillance, mission assurance and storage of 504 de-activated ICBM rocket motors. This team of 38

members piloted launch and logistics operations for NRO, USSF, OSD and Air Force launches.

Spacesuit Glove Damage Inspection Team of The Aerospace Corporation - Outstanding initiative in developing a machine learning method of rapidly inspecting spacesuit gloves for critical damage.

United Launch Alliance (ULA) Interim Cryogenic Propulsion Stage (ICPS) Team of United Launch Alliance - Outstanding development of the ICPS upper stage that will propel the first three Artemis missions, beginning with a bulls-eye Trans-Lunar Injection during Artemis I.

Volatiles Investigating Polar Exploration Rover (VIPER) Lunar Rover Engineering Team of KBR - Excellence in developing and testing Rover software and navigation systems for the Volatiles Investigating Polar Exploration Rover (VIPER).



Congratulations to NASA for more than 60 years of historic achievement and to commercial space pioneer

Gwynne Shotwell

2023 National Space Trophy Winner

We salute all the 2023 Stellar Award nominees for their dedication to space exploration. We thank RNASA for honoring these heroes of the American space program



BOARD OF ADVISORS

ROTARY NATIONAL AWARD FOR SPACE ACHIEVEMENT

George W.S. Abbey
James F. Albaugh
Edward C. Aldridge
Charles F. Bolden
Dan Brandenstein
Robert D. Cabana
Lisa Callahan
Donald J. Campbell
Jeffrey E. Carr
Mark E. Carreau
David Cazes
Kevin P. Chilton
Michael L. Coats
Eileen M. Collins
Brad Cothran
Richard O. Covey
Robert Crippen
Frank L. Culbertson
Ronald D. Dittmore
Charles Elachi
John W. Elbon
Joe H. Engle
G. Allen Flynt
James M. Free
Donald Fuqua
William H. Gerstenmaier

Gerald D. Griffin
Michael D. Griffin
John M. Grunsfeld
Jim Hartz
J. Milt Heflin
Cynthia Hendershot
Jorge Hernandez
Richard J. Hieb
Tommy W. Holloway
Neil B. Hutchinson
Kay Bailey Hutchison
Sandra G. Johnson
John C. Karas
Janet L. Kavandi
Joseph P. Kerwin
Eugene F. Kranz
Debbie Kropp
Robert Lightfoot
Randolph Lillard
Sandra H. Magnus
Todd A. May
David D. McBride
Vernon McDonald
Robert E. Meyerson
Lon Miller
Bob Mitchell

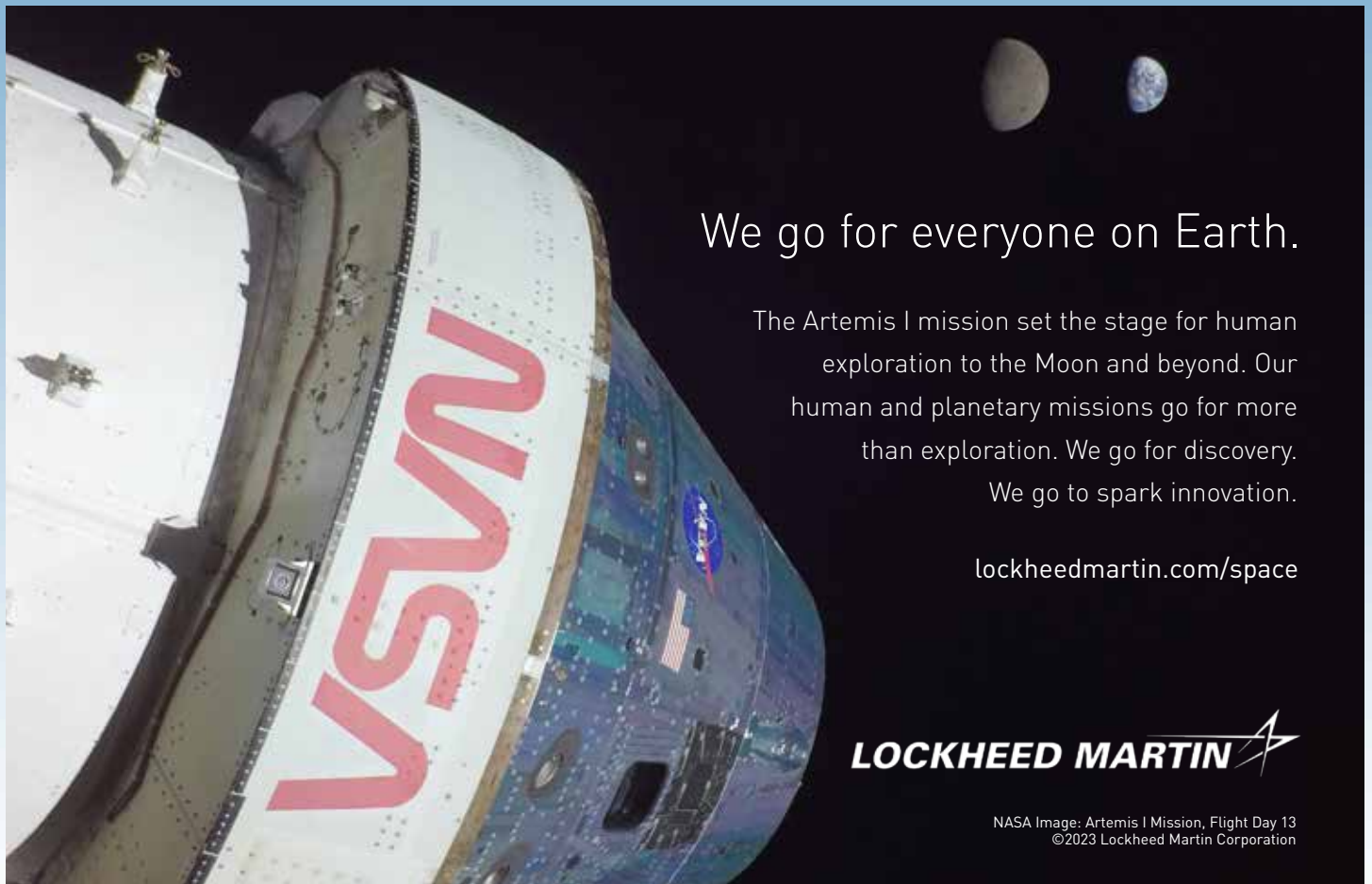
John P. Mulholland
George C. Nield
Miles O'Brien
Ellen Ochoa
William W. Parsons
Thomas B. Pickens
William F. Readdy
Kenneth S. Reightler
Harrison H. Schmitt
Christopher J. Scolese
Brewster H. Shaw
Mark N. Sirangelo
Thomas P. Stafford
William A. Staples
Charles M. Stegemoeller
Richard D. Stephens
Michael Suffredini
Edward M. Swallow
David Thompson
Richard H. Truly
William Vantine
Elizabeth Wagner
George Whitesides
Vanessa E. Wyche



SPACE TO **INNOVATE.**
SPACE TO **EXPLORE.**
SPACE TO **LEAD.**

leidos.com/space

©Leidos. All rights reserved.



We go for everyone on Earth.

The Artemis I mission set the stage for human exploration to the Moon and beyond. Our human and planetary missions go for more than exploration. We go for discovery. We go to spark innovation.

lockheedmartin.com/space

LOCKHEED MARTIN

NASA Image: Artemis I Mission, Flight Day 13
©2023 Lockheed Martin Corporation

C O N G R A T U L A T I O N S

to the 2023 Stellar Award Winners and this year's National Space Trophy Recipient:



Gwynne Shotwell

2023 NATIONAL SPACE TROPHY RECIPIENT

We salute your incredible achievements that were instrumental to the development of the commercial space industry and have pioneered a new frontier in human spaceflight. Thank you for paving the way for a bright new horizon as we venture back to the Moon, Mars, and beyond.

Jacobs

Challenging Today.
Reinventing Tomorrow.