

SPACE FLIGHT AWARENESS

National Aeronautics and
Space Administration



PROGRAM 2023

www.nasa.gov/sfa



Featured On Cover

SpaceX Crew-6 members pose for a portrait underneath a Falcon 9 rocket booster.

Crew Members (l-r)

Cosmonaut Andrey Fedyayev, Astronaut Stephen Bowen, Astronaut Warren Hoburg, Emirati Astronaut Sultan Al Neyadi




SPACE FLIGHT AWARENESS PROGRAM 2023

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A photograph taken from inside a large industrial building, looking through a complex, dark metal lattice structure. In the background, a large orange and white rocket is being moved. The rocket has a white cylindrical section with a black and white checkered pattern. The scene is lit with warm, orange light, and several small white lights are visible on the metal structure. The overall atmosphere is industrial and technical.

NASA's Artemis I Mission:
NASA's Space Launch System (SLS) rocket
with the Orion spacecraft aboard is seen atop
the mobile launcher as it is rolled back to the
Vehicle Assembly Building from Launch Pad
39B

NASA'S VISION, MISSION, AND STRATEGIC GOALS

THE VISION

Exploring the secrets of the universe for the benefit of humanity.

THE MISSION

NASA explores the unknown in air and space

- Exploring at the Moon and on to Mars
- Solving mysteries of our home planet, solar system, and beyond
- Revolutionizing air transportation

NASA innovates for the benefit of humanity

- Improving life on Earth through climate, medical, and technological innovations
- Developing sustainable aviation enabled by green technologies
- Increasing access to space and making our data and innovations accessible to all

NASA inspires the world through discovery

- Leading worldwide partnerships aligned with our values and vision
- Growing new commercial markets to serve NASA and all of America's interests
- Valuing diversity, equity, and inclusion for our current and future workforce

FOUR STRATEGIC THEMES

- Discover
- Explore
- Develop
- Enable



NASA Administrator Sen. Bill Nelson

STRATEGIC GOALS

1. Expand human knowledge through new scientific discoveries.
2. Extend human presence deeper into space and to the moon for sustainable long-term exploration and utilization.
3. Address national challenges and catalyze economic growth.
4. Optimize capabilities and operations.

HISTORY OF SPACE FLIGHT AWARENESS

NASA established the Space Flight Awareness (SFA) Motivation and Recognition Program in 1963 during the Mercury and Gemini period to infuse the space program with a renewed and strengthened consciousness of quality and flight safety. As NASA's human spaceflight programs continued and developed, the NASA centers increased the assistance they provided to the employees' motivation programs of their contractors and other government agencies. SFA soon became the watchword of the American space program.

The SFA Program played an integral and increasingly forceful safety role in the Saturn, Apollo Skylab and Apollo-Soyuz projects. By the time the space shuttle first flew, the program had expanded to include subcontractors providing critical hardware, software and services. As regular Space Shuttle missions grew in complexity and the International Space Station became a reality, the SFA Program evolved into one of the single most successful motivational initiatives within all federal and contractor departments and agencies.

The future of spaceflight brings new opportunities and challenges for the SFA Program. To continue to be effective, the program must keep pace with an ever-changing environment of people, systems and processes that design, build, fly and support human spaceflight.

For that reason, the SFA Working Group work diligently to ensure an effective and valuable program. SFA continues to focus on excellence in quality and safety – for the lives of the astronauts, for mission success and for the success of America's space program.



A MESSAGE FROM THE ASSOCIATE ADMINISTRATORS OF SPACE OPERATIONS & EXPLORATION SYSTEMS DEVELOPMENT

Team,

Thank you for another extraordinary year of discoveries and accomplishments in human space exploration — breaking records and making history.

While crew members orbited Earth aboard the International Space Station, conducting scientific investigations, we launched the Orion spacecraft atop the Space Launch System (SLS) rocket for Artemis I on its first mission beyond the Moon — on a 1.4-million-mile roundtrip journey — and safely rode that wave of success to conclusion with splashdown of the crew capsule in the Pacific Ocean on December 11, 2022. Though postflight analysis continues, preliminary data confirms that we got a lot right. The debut flight of SLS showed that the rocket performed with precision,

in many cases exceeding performance expectations. NASA Exploration Ground Systems (EGS) teams modernized infrastructure at Launch Complex 39B and the Vehicle Assembly Building in anticipation of the mobile launcher bracing 8.8 million pounds of thrust at liftoff to send Orion to the Moon. Orion accomplished 161 test objectives (and even 20 more objectives added mid-flight) on its maiden voyage, fully demonstrating every aspect of the vehicle. All the spacecraft's dynamic separation events — those moments where we hold our breath — were completed without issue. Poor weather attempted to, but decidedly did not, rain on the parade of the Artemis I mission, with splashdown moved to a new target landing spot to avoid

A MESSAGE FROM THE ASSOCIATE ADMINISTRATORS OF SPACE OPERATIONS & EXPLORATION SYSTEMS DEVELOPMENT

inclement conditions. All these defining moments with our NASA colleagues, as well as international and industry partners, validated that NASA's deep space transportation system is one that humans can rely upon for future human space exploration.

Building on the foundation of Artemis I, work is well underway on hardware for missions through Artemis V, and we have work on contract through Artemis IX, demonstrating how hardware-rich our lunar endeavors are. The Artemis IV Orion pressure vessel was delivered to Kennedy Space Center earlier this year, joining the two other Orion spacecraft we will use for Artemis II and III. We are nearing the integration of the Artemis II Orion crew module with the service module at Kennedy and expect the European Service Module for Artemis III to ship later this year. Artemis V's Orion is also in production, with panels being machined and modules being assembled across the globe. The SLS rockets for Artemis II through V are making progress as well. Teams recently completed the final major join of the core stage for Artemis II and are integrating the RS-25 engines – we'll ship the core stage this summer. We've also embarked on a rigorous hot fire testing campaign for a redesigned RS-25 engine to support the production of additional engines for future SLS flights.

SpaceX is progressing on its Starship human landing system that will carry humans from lunar orbit to the surface of the Moon and back again during Artemis III and IV. By the end of 2023, we'll have a second provider on contract. In March, Axiom revealed a prototype of the spacesuit that will be worn by Artemis III astronauts, including the first woman in history to set foot on the lunar surface. The Exploration Ground Systems team continues to make progress on Mobile Launcher (ML) refurbishments after the Artemis I launch and on the development of Mobile Launcher 2, to enable the SLS Block 1B rocket to launch from complex 39B at our Kennedy Space Center. The Block 1B variation of SLS will use a new, more powerful Exploration Upper Stage to enable more ambitious missions, including launch crew and cargo to the Moon in one shot. The SLS Block 1B's first flight will be Artemis IV, when the European Space Agency-provided International Habitat (I-HAB) module will be launched to Gateway alongside the crew in the Orion spacecraft. Looking further forward to Artemis V, the draft Request for Proposal (RFP) for the Lunar Terrain Vehicle (LTV) unpressurized rover is out for industry feedback, and procurement will officially kick off with the final RFP release this summer.



Associate Administrator for
Space Operations Mission Directorate



Associate Administrator for
Exploration Systems Development
Mission Directorate

SPACE FLIGHT AWARENESS PROGRAM GOALS, OBJECTIVES, AND TEAMS

NASA established the Space Flight Awareness (SFA) program in 1963. It was established as a formal program during the Mercury and Gemini program, to infuse the space program with a renewed and strengthened consciousness of quality and flight safety. Since its inception, SFA's mission has been to ensure that all employees involved in human spaceflight are aware of the impact their actions can have on astronaut safety and mission success. During this time, thousands of individuals were recognized for their contributions to the safety and success of NASA's programs. The key to SFA's longevity is its two-pronged approach to meeting its goal – awareness and recognition.

2023 Space Flight Awareness Program Goals

1. Sponsor employee recognition and motivation events utilizing our astronaut corps and senior management.
2. Sponsor milestone events.
3. Promote current and future human spaceflight missions. Recognize significant accomplishments.
4. Promote awareness of future programs by developing awareness and safety products, and recognize significant program milestones.

Space Flight Awareness Objectives

1. Improve employee awareness on the importance of their role in promoting safety, quality, and mission success.
2. Conduct events that motivate and recognize the workforce and improve employee morale.
3. Function as an internal communications team to disseminate key program safety, quality, and mission messages.
4. Increase awareness of the spaceflight program with a focus on safety and mission success.
5. Maintain supplier motivational and recognition programs.

Space Flight Awareness Program Teams

Products: Produce products that highlight safety and awareness of human spaceflight programs.

Awareness: Increase awareness of the SFA Program. Develops key messages related to astronaut and mission success for human spaceflight.

Supplier: Promote awareness and provide recognition to critical suppliers who provide outstanding products and services in support of the human spaceflight programs and mission.



Expedition 68 Logo

SPACE FLIGHT AWARENESS ACTIVITIES, VISITS, AND PRODUCTS



SFA Activities

SFA activities include employee recognition, motivational visits and the development, display and distribution of awareness tools and educational materials.

SFA Visits

SFA works to arrange executive and astronaut visits to help remotely located employees feel that they are part of the human spaceflight team, and to give them an opportunity to get to know those who will use the products they design and build.

SFA Products

SFA uses a variety of products to focus on key aspects of human spaceflight requirements and mission activities:

- Printed products – safety, quality, reliability, mission, astronauts, significant milestones
- Decals – mission and program decals
- Lapel Pins – vehicle, mission, milestones
- Safety Day briefings

Astronaut Stephanie Wilson presented the Honoree award to recipient Danielle Messick; along with Doug Bradley, Program Manager of the RS-25 and Jim Maser, Senior Vice President Space Unit Aerojet Rocketdyne.

SPACE FLIGHT AWARENESS PROGRAM AWARDS

Silver Snoopy Award

This is the astronauts' personal award. To qualify for this award, eligible candidates will have made contributions toward enhancing the probability of mission success or improvements in design, administrative/technical/production techniques, business systems, flight and/or systems safety, or identification and correction or preventive actions for errors. This award is generally not intended for management. Only one Silver Snoopy award per individual is permitted.

Honoree Award

This award is one of the highest presented to NASA and industry and is for first-level management and below. This award is presented to employees for their dedication to quality work and flight safety. To qualify, the individual must have contributed beyond his or her normal work requirements to achieve significant impact on attaining a particular human spaceflight program goal; contributed to a major cost savings; been instrumental in developing modification to hardware, software, or materials that increase reliability, efficiency, or performance; assisted in operational improvements; or been a key player in developing a beneficial process improvement. An honoree may only receive this award once.

Flight Safety Award

This award recognizes significant, outstanding individual or team contributions related to the prevention of anything that could lead to a catastrophic mishap to the vehicle, crew or mission. The approval process for this award includes the SFA Working Group, the Flight Safety Panel, NASA's Chief of Safety and Mission Assurance, the NASA Associate Administrators for Exploration Systems Development and Space Operation Mission Directorates.

Team Award

This award is used to recognize groups of employees that have demonstrated exemplary teamwork while accomplishing a particular task or goal in support of the human spaceflight program.

Supplier Award

This annual award honors outstanding performance by hardware, software, or service suppliers who support NASA human spaceflight programs. Awardees are chosen based on their production of high-quality products, excellent technical and cost performance and adherence to schedules.

Management Award

This award is intended for recognition of proactive mid-level managers who consistently demonstrate loyalty, empowerment, accountability, diversity, excellence, respect, sharing, honesty, and integrity.

Trailblazer Award

This award is used to recognize employees who are in the early stages of their career. Awardees must demonstrate strong work ethic and creative, innovative thinking in support of human spaceflight.

Special Local Award

The SFA Special Local Award is presented to local employees for their dedication to quality work and flight safety and mission success. Awardees will have the opportunity to be recognized at an award program, participate in a special program milestone event, as appropriate, and meet with top NASA and industry officials. The SFA Special Local Award should not be used as recognition for an individual's longevity, retirement, or separation from service.

MEET THE ARTEMIS II MISSION TEAM



Crew members (l-r): NASA astronauts Christina Hammock Koch, Reid Wiseman (seated), Victor Glover, and Canadian Space Agency astronaut Jeremy Hansen

AWARD METRICS

Fiscal Year	Silver Snoopy Awards	Honoree Awards	Flight Safety Awards	Team Awards	Total # of Team Members	Supplier Awards	Management Awards	Local Recognition	Trailblazer Awards	Astronaut Visits
2018	149	127	0	43	1709	3	35	12	36	18
2019	142	84	4	35	830	5	19	0	22	21
2020	10	46	0	36	912	5	6	0	10	11
2021	34	0	2	66	1872	0	30	0	37	14
2022	161	96	1	31	327	1	5	6	44	17

Silver Snoopy Awards

161

Headquarters	1
Glenn Research Center	23
Goddard Space Flight Center	9
Johnson Space Center	63
Kennedy Space Center	18
Langley Research Center	1
NESC	1
NSSC	4
Stennis Space Center	21
DCMA	2
Aerojet Rocketdyne	5
Boeing	6
Northrop Grumman	7

Honoree Awards

96

Headquarters	10
Ames Research Center	1
Glenn Research Center	4
Goddard Space Flight Center	2
Johnson Space Center	13
Kennedy Space Center	8
Langley Research Center	2
Marshall Space Flight Center	10
NESC	1
NSSC	1
Stennis Space Center	10
DCMA	1
Aerojet Rocketdyne	8
Boeing	13
Lockheed Martin	7
Northrop Grumman	5

Flight Safety Awards

1

Langley Research Center	1
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Team Awards

31

Headquarters	3
Goddard Space Flight Center	2
Johnson Space Center	14
Kennedy Space Center	6
DCMA	4
Boeing	2

Team Members Awarded

327

Headquarters	20
Goddard Space Flight Center	39
Johnson Space Center	157
Kennedy Space Center	41
DCMA	50
Boeing	20

Supplier Awards

1

Johnson Space Center	1
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Management Awards

5

Johnson Space Center	2
Aerojet Rocketdyne	3

Local Recognition Awards

6

Johnson Space Center	6
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Trailblazer Awards

44

Glenn Research Center	3
Goddard Space Flight Center	2
Johnson Space Center	16
Kennedy Space Center	5
Marshall Space Flight Center	9
Aerojet Rocketdyne	3
Boeing	6

Astronaut Visits

17

Headquarters	1
Goddard Space Flight Center	1
Johnson Space Center	3
Kennedy Space Center	2
Langley Research Center	1
NESC	1
Aerojet Rocketdyne	2
Boeing	5
Northrop Grumman	1



Astronaut Victor Glover presented the Silver Snoopy award to recipient Greg Goebel.



Astronaut Zena Cardman presented the Silver Snoopy award to recipient Mike Lauer.

2023 HONOREE EVENTS



Boeing Starliner Crewed Flight Test
Kennedy Space Center, Florida



RS-25 Engine Test
Stennis Space Center, Mississippi

SPACE FLIGHT AWARENESS WORKING GROUP MEMBERS

The SFA Working Group strives to ensure an effective program, one of value to the human spaceflight workforce. The focus of the program continues to be excellence in quality, safety and mission success.

Dr. Alotta Taylor
Office of Space Operations
NASA Headquarters, Program Manager

Shera McNeill*
NASA Headquarters

Jessica Cordero
NASA Johnson Space Center

Jane Mosconi
NASA Kennedy Space Center

Amanda Dobbs**
NASA Marshall Space Flight Center

Tessa Keating***
NASA Stennis Space Center

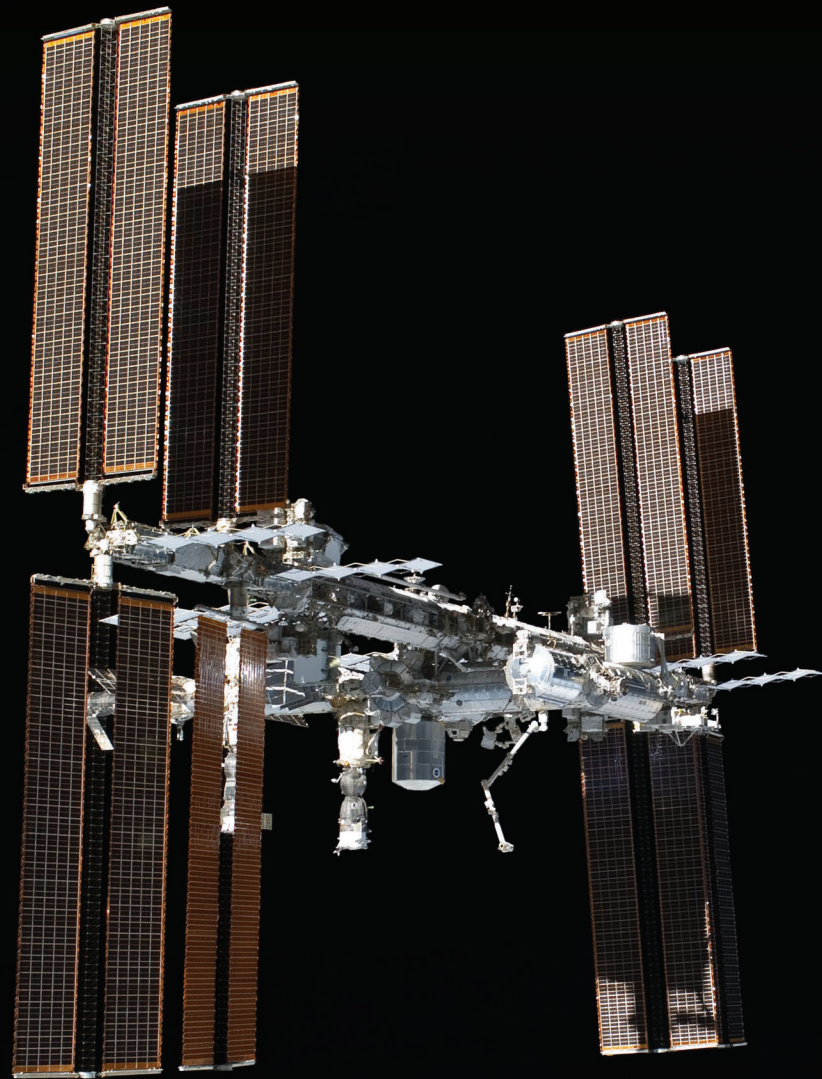
Briana Horton
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Julie Zingerman
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Megan Donaldson
The Boeing Company

Kara Denny
Lockheed Martin

Stephanie Williams
Northrop Grumman



* **SFA Working Group member also represents:**
Glenn Research Center, Langley Research Center, and NASA Engineering & Safety Center

** **SFA Working Group member also represents:** NASA Michoud Assembly Facility

*** **SFA Working Group member also represents:** Ames Research Center, Armstrong Flight Research Center, Defense Contract Management Agency, and NASA Shared Services



NASA's Boeing Orbital Flight Test 2 (OFT-2)

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PROGRAM 2023

National Aeronautics and Space Administration

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