



R_{NASA} S_{TELLAR} A_{WARD} N_{OMINEES} - T_{EAM}



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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In-Space Propulsion Technology Project Team of NASA

Marshall Space Flight Center - For development and demonstration of new in-space propulsion technologies for robotic science missions.

ISS Flight Control Room Development Team of Lockheed Martin

- Exceptional effort to design, develop and deliver a new flight control room for monitoring and control of the *ISS* under severe schedule and budget constraints.

ISS Flight Software Team of The Boeing Company

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

ISS Guidance, Navigation, and Control Team of The Boeing Company

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

ISS Internal Wireless Instrumentation System Power Cable Team of United Space Alliance

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

ISS Trailing Umbilical System Reel Assembly Launch and Activation Engineering Team of The Boeing Company

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

JSC Enabling Technology & Security Information Technology

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

Liquid Hydrogen Flowliner Snip Team of United Space

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

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

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

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

Milstar Messaging Application 1.0 Team of the United States Air Force, MILSATCOM Directorate of Logistics

- Exceptional dedication, innovation, and technical excellence in the development, testing and fielding of Milstar messaging application software.

Mission Analysis and Integration Team of Booz Allen

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

Mission Control Center System Local Area Network

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

Nanotube Research and Development Team of ERC Inc.

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

Orbiting Carbon Observatory Instrument Team of Hamilton Sundstrand

- Design and development of a state-of-the-art three-spectrometer instrument to measure atmospheric carbon dioxide to study the global sources and sinks of the greenhouse gas.

P3/P4 Launch Activation Engineering Team of The Boeing Company

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

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

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

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

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

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

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

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

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

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

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

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

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

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



The Apollo 13 team celebrates in April 1970.

NASA photo