

# 2009 Stellar Award Nominees TEAM

**360 Degree Liquid Oxygen Tank Flange Closeout Re-design Team of Lockheed Martin** - Outstanding teamwork in developing, coordinating and implementing the single pass 360 liquid oxygen flange process change resulting in more than thirty days of processing time savings while maintaining mission success for the Shuttle external tank.

**Altair Probability of No Penetration Analysis Tool Team of ARES Corporation** - Outstanding technical excellence in developing a penetration analysis tool for micro-meteoroid and orbital debris impacts to ensure compliance with Altair lunar lander loss-of-mission and loss-of-crew requirements.

**Ares I Failure, Detection, Diagnostics and Recovery Team of NASA Marshall Space Flight Center** - Outstanding team contributions to safer space exploration in the area of launch vehicle aborts, pre-launch diagnostics, and post flight analysis.

**Atomic Oxygen Effects on Spacecraft Materials Team of NASA Glenn Research Center** - Pioneering contributions for predicting and characterizing the effects of atomic oxygen on spacecraft materials and structures, and developing highly innovative and effective techniques to mitigate these effects on spacecraft components.

**Booster Separation Motor Team of ATK Launch Systems** - Outstanding achievement in preserving the Space Shuttle launch manifest with the successful transition, qualification, fabrication and delivery of Space Shuttle booster separation motors

**Communication/Navigation Outage Forecasting System Team of USAF, Space Development and Test Wing** - Extremely successful integration, testing, and launch of the Communication Navigation Outage Forecasting System mission, enabling a new capability to predict the effects of space weather on global communication and navigation systems.

**Constellation Lunar Architecture Team of NASA JSC** - Outstanding teamwork leading to a successful Lunar Capability Concept Review for the Constellation program.

**Crew Escape Equipment Launch on Need Hot Cabin Environmental Test Team of United Space Alliance** - Expedient and effective response to a concern that a Shuttle rescue flight could subject the crew to elevated temperatures and cause a safety-of-flight issue.

**External Tank Engine Cut-Off System Redesign and Certification of Lockheed Martin** - Technical excellence and outstanding team dedication in identifying the external tank engine cut-off system anomaly root cause and expeditiously redesigning and verifying a critical system.

**Functional Mobility Testing Qualification of Functionally Utilized Mobility Among Unsuitted and Suitted Subjects Team of MEI Technologies, Inc.** - Exceptional teamwork and technical achievement in creating a novel methodology for establishing functional mobility requirements of space suits.

*Continued on next page*



## 2008 Team Category Stellar Award Winners

Astronaut Sunni Williams (presenting), Daniel J. Sweeney (Booz Allen Hamilton), Joel S. Liebman (ARES), James J. Feeley (Lockheed Martin), Deborah G. Vane (JPL), Charles A. Finchum (MSFC), Colin Peterson (JSC), Harriett Lewis (ESC), and Astronaut Leland Melvin (presenting). (NASA)

# 2009 Stellar Award Nominees TEAM



2009 ROTARY NATIONAL AWARD  
FOR SPACE ACHIEVEMENT

*Continued from previous page*

**ISS Crew of 6 Habitation Hardware Development Team of NASA JSC**- Exemplary performance in the development and checkout of the crew habitation hardware required to expand the ISS to a crew size of six.

**ISS Flight Software Formal Qualification Test Team of The Boeing Company** - Outstanding effort to assure delivery of superior software products that support the safe, robust and efficient operation of the ISS, while exceeding customer expectations for timely and cost-effective performance.

**ISS Hardware/Software Integration Team of The Boeing Company** - Exemplary preflight testing of the H-II Transfer Vehicle flight vehicle, contributing significantly to mission success.

**ISS Joint Station Local Area Network (LAN) Team of The Boeing Company** - Successful design, development, integration, testing and on orbit deployment of the ISS joint station LAN that provides a high speed, low cost, Ethernet network for both operational and payload use throughout ISS, including both U.S. and International Partner modules.

**ISS Solar Alpha Rotary Joint Recovery Team of NASA JSC**- Exemplary performance in determining the root cause of the ISS Solar alpha rotary joint anomaly and implementing required measures to resolve the issue.

**ISS Water Processor Assembly and Oxygen Generator Assembly Team of Hamilton Sundstrand** - Outstanding development of water processing and oxygen generating equipment and deployment on the ISS to enable a six-person crew.

**J-2X Rocket Engine Critical Design Review Team of Pratt & Whitney Rocketdyne** - Outstanding contributions to development of the J-2X rocket engine that will be used to power launch vehicles to the ISS and Moon.

**JSC Enabling Technology & Security Team of MEI Technologies, Inc.** - Exceptional leadership, dedication and technical excellence in protecting JSC's information assets, quickly developing and implementing complex Information Technology solutions, and significantly improving the performance of JSC's network in support of Human Spaceflight.

**K-band Traveling-Wave Tube Amplifier for the Lunar Reconnaissance Orbiter (LRO) Team of NASA Glenn Research Center** - Exemplary performance in solving numerous technical problems associated with the development of a K-band traveling-wave tube amplifier for LRO.

**Low-Density Parity Check Team of MEI Technologies, Inc.** - Outstanding contributions to developing enabling technologies and providing solutions to challenging technical problems of increasing the high-speed downlink rate in satellite communications.

**"Meet the Manifest" Thermal Protection System Design/Process Change Team of Lockheed Martin** - Successful teamwork in coordinating process and design changes that reduced rework and improved delivery schedules for the Shuttle external tank while lowering debris potential.

**National Space Biomedical Research Institute User Panel of National Space Biomedical Research Institute** - Outstanding insight and expert guidance in developing

*Continued on next page*



In addition to a marble trophy, Stellar Award winners receive a professionally crafted plaque like this one.

high-priority, operationally relevant countermeasures to biomedical risks associated with human space exploration.

**Orbital Orion Launch Abort System Rocket Motor Integration Support Team of ARES Corporation** - Outstanding technical and leadership contributions to rocket motor development efforts on the joint Orbital Sciences NASA Orion Launch Abort System team responsible for the integration of the abort motor, attitude control motor and the jettison motor for the Pad-Abort 1 test.

**Phoenix Project Team of NASA Jet Propulsion Laboratory** - Outstanding technical excellence and team dedication enabling another first for the United States space program by the successful polar mission around another celestial body.

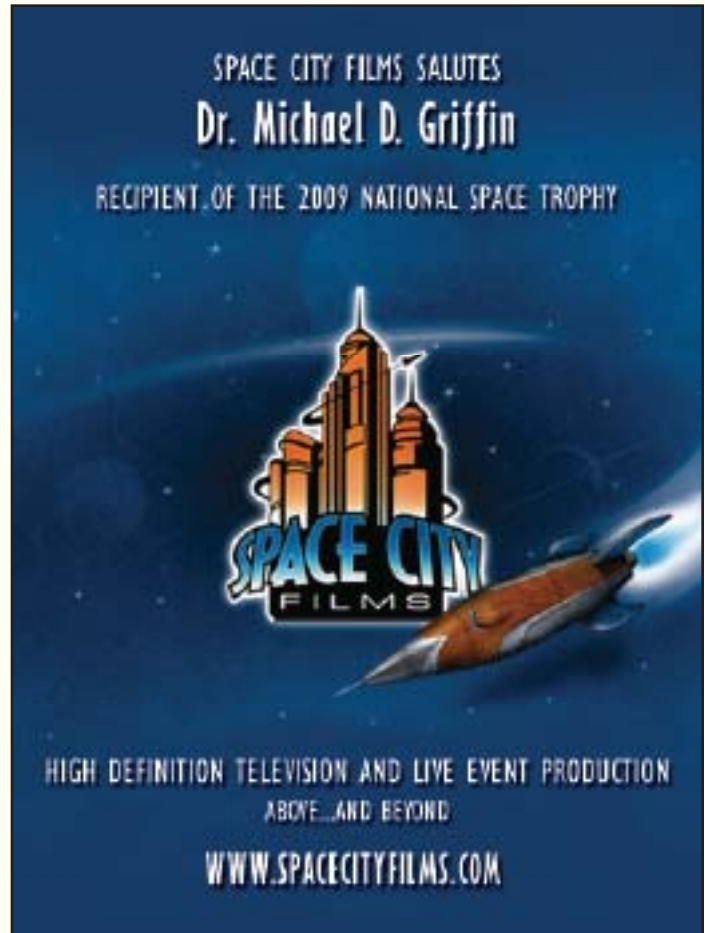
**Reusable Solid Rocket Motor Intelligent Pressure Transducer Team of ATK Launch Systems** - Exceptional effort and dedication in the development, qualification, and implementation of a stand-alone intelligent pressure transducer for collecting motor ignition and thrust oscillation data on Space Shuttle reusable solid rocket motors for better understanding of the Ares I first stage.

**Reusable Solid Rocket Motor Process System Design Team of ATK Launch Systems** - Exceptional creativity and perseverance in developing a revolutionary new production system yielding profound improvement results and laying a strong foundation for the future needs of human spaceflight

**Sensor Data Qualification System Team of NASA Glenn Research Center** - Successful development and proof-of-concept demonstration of sensor data qualification technology enabling its incorporation into the onboard fault detection, notification and response system for the upper stage element of the Ares I launch vehicle.

**Shuttle Crew Escape Equipment (CEE) Communication Upgrade Project Team of United Space Alliance** - Exceptional teamwork to redesign and fabricate new communication cable for the CEE Helmet and communications carrier assembly used by Space Shuttle astronaut crewmembers.

**Small Pressurized Rover Team of NASA JSC** - Outstanding team effort to develop a radically different form of surface transportation that will enable new types of human exploration.



**Space Shuttle Guidance, Navigation and Control Team of The Boeing Company** - Exceptional contributions to continued safe operation of the Space Shuttle by responding to the pressures of retaining a critical skill base through initiatives intended to improve the quality of Shuttle mission support in an environment of diminishing resources.

**Total Organic Carbon Analyzer Project Team of Lockheed Martin** - Exceptional dedication, hard work, and technical excellence in the development, fabrication and certification of the total organic carbon analyzer in support of the ISS six-person crew.

**Waste and Hygiene Compartment Development Team of The Boeing Company** - Extraordinary technical excellence in development of waste and hygiene hardware to support expansion to six-person capability on the ISS.