

The background of the slide is a deep space scene. On the right side, a large, reddish-brown planet, likely Mars, is partially visible, showing its textured surface. In the upper center, a smaller, pale crescent moon is visible against the dark blue and black expanse of space, which is filled with numerous stars and a faint nebula.

**TRI-ASSOCIATION SMALL BUSINESS  
ADVISORY PANEL MEETING**

**DOING BUSINESS WITH NASA**

Presented By:  
David E. Brock

May 27, 2010

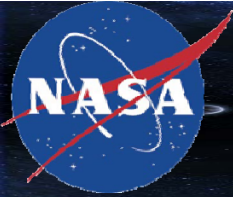


# NASA Major and Component Installations



( ) Lead Management Center





# Four Mission Directorates and Ten Centers

- **Space Operations**

- Johnson Space Center
- Marshall Space Flight Center
- Kennedy Space Center
- Stennis Space Center

- **Aeronautics**

- Langley Research Center
- Glenn Research Center
- Dryden Flight Research Center

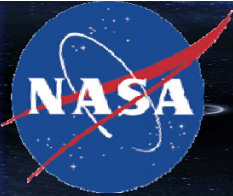
- **Science**

- Goddard Space Flight Center
- Ames Research Center
- Jet Propulsion Laboratory (JPL)-Cal Tech

- **Exploration Systems**

- Various



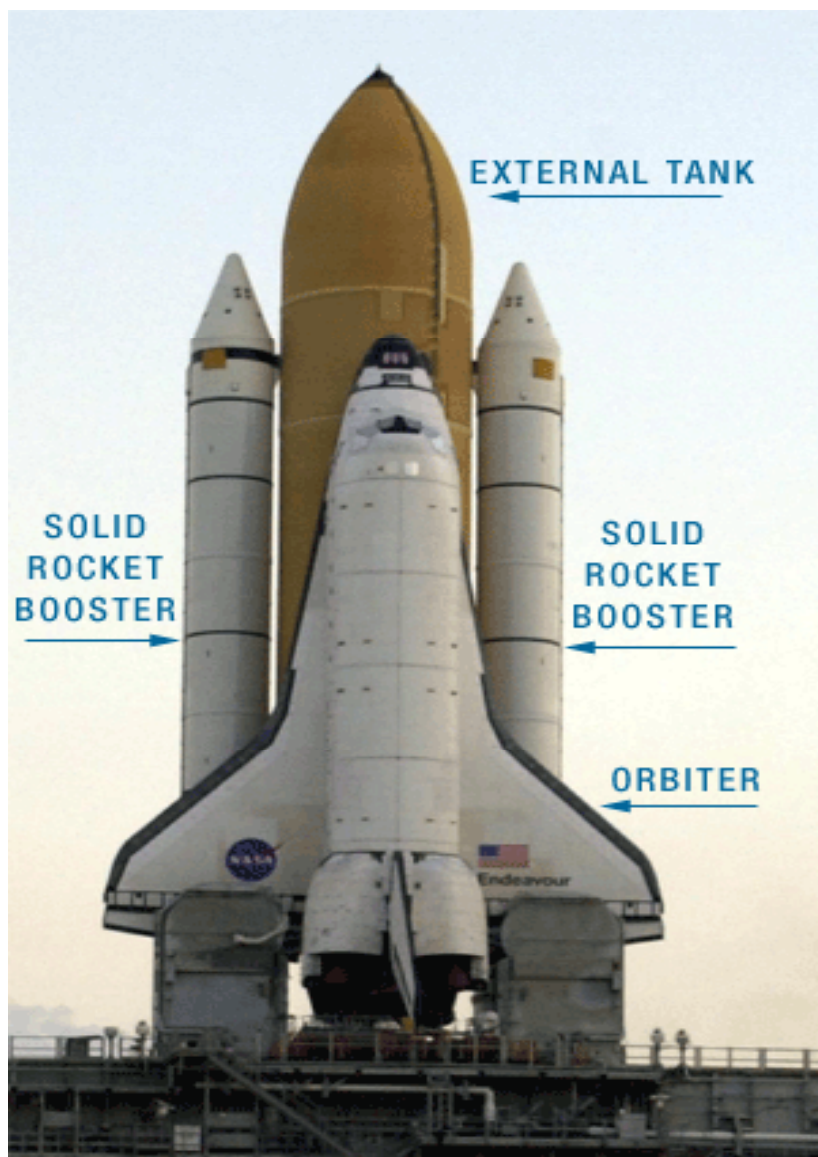


# Center Missions

Center	Mission
Ames Research Center	Aerospace & Small Spacecraft
Dryden Flight Research Center	Atmospheric Research & Testing
Glenn Research Center	Aeronautics & Spacecraft Technology
Goddard Space Flight Center	Science Missions & Telescopes
Jet Propulsion Laboratory	Deep Space Robotic Rovers & Networks
Johnson Space Flight Center	Operations
Kennedy Space Center	Shuttle Launch & Landing
Langley Research Center	Aviation & Space Research
Marshall Space Flight Center	Space Transportation, Systems & Selected Science
Stennis Space Center	Shuttle Engine Testing

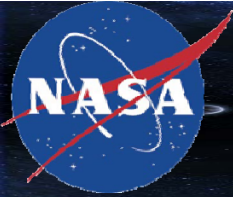


# Space Shuttle Program



- The world's first reusable spacecraft in history that can carry large satellites both to and from orbit.
- Launches like a rocket, maneuvers in Earth orbit like a spacecraft and lands like an airplane
- Orbits the earth at 115 to 400 statute miles with a velocity of over 17,321 mph
- **The most reliable launch record of any rocket now in operation.** Since 1981, it has boosted more than 1.36 million kilograms (3 million pounds) of cargo into orbit. More than 600 crew members have flown on its missions

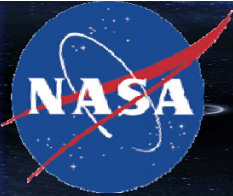




# International Space Station Program

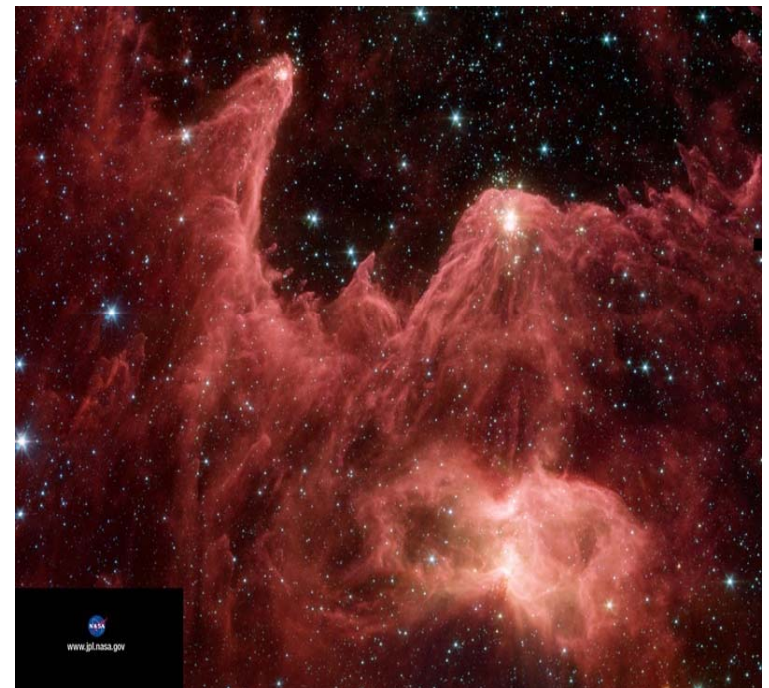


- Altitude: ~200 miles above earth
- Velocity: 17,240 mph, completing 15.7 orbits per day
- Joint project between United States (USA), Russia (RKA), Japan (JAXA), Canada (CSA), and several European countries (ESA), and Brazil (AEB)
- World-class research platform for biomedical, biotechnology, fluid physics, material science, quantum physics, astronomy, and meteorology
- Permanently manned since Nov. 2, 2000. Visited by over 137 people to date.



# Center Autonomy

- Have individual Industry Assistance Offices
- Have dedicated Small Business Specialists(s)
- Engage in outreach efforts
- Do procurements  
Independently of other  
Centers

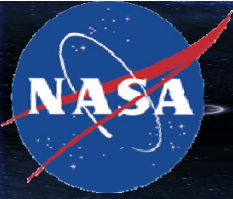




# NASA Small Business Specialists

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# NASA FY 2009 Small Business Direct Achievements

Categories	Government % Goals	NASA % Goals	NASA \$ Achieved	NASA % Achieved
Oblig.			\$ 14,476,648,282	
SB	23.00%	15.35%	\$ 2,243,565,273	15.50%
SDB	5.00%	5.00%	\$ 1,169,148,562	8.08%
WOSB	5.00%	5.00%	\$ 245,190,899	2.38%
HUBZone SB	3.00%	3.00%	\$ 106,071,179	.73%
SDVO SB	3.00%	3.00%	\$ 212,384,951	1.47%

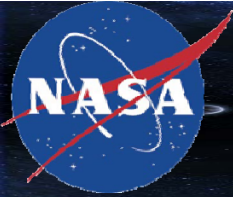


# Procurement Information Circular 09-07

## Small Business Utilization Factor

- Dated May 18, 2009
- Provides model clause and provision language to ensure the proper evaluation of small business utilization under competitive negotiated acquisitions





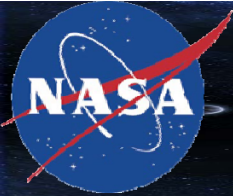
# Proposed Changes to the Provisions

- **Small Business Utilization Subfactor and Evaluation Tool**
  - Subcontracting plans
  - Commitment to SB
  - SDB Participation
  
- **History of meeting subcontracting goals moved to Factor on Past Performance**
  
- **Commitment to Small Business**
  - Combining to “stand alone” element
  - Streamlining items
  
- **Explains “fit” with small business offerors**
  - Small Business Primes are evaluated



# Procurement Notice 04-04 NASA Mentor Protégé Program

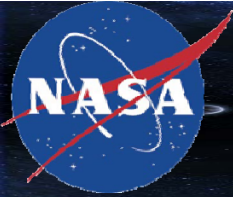
- Dated May 29, 2000
- This PN is a result of a study of NASA's Mentor-Protégé program. The changes streamline the program; align the mentoring to technical skills; expand the program to Veteran-owned, HUBZone, and NASA Small Business Innovation Research (SBIR) Phase II small businesses; and include award fee incentives.



# NASA Mentor Protégé Pilot Program

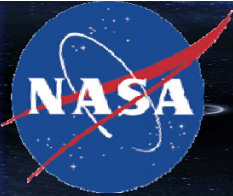
- NASA Far Supplement created the Pilot Program for SBIR Phase II companies on May 29, 2009
- Goal is to incentivize Large Companies to mentor SBIR Phase II companies with technology transfer and business development skills that will increase their Technology Readiness Level (TRL)
- TRL measures technology readiness on a scale of 1-9
  - TRL 1-2 is where SBIR Phase I starts
  - TRL 4-5 is SBIR Phase II
  - TRL 8-9 is SBIR Phase III ready for commercial applications





# NASA Mentor Protégé Pilot Program (Cont.)

- First SBIR pilot M-P agreement signed by Boeing & Orion Propulsion Inc.
  - 18 month agreement worth over \$700K (Credit towards subcontracting plan)
  - Award fee added to MSFC Ares I contract worth up to \$100K funded by OSBP
  - Agreement calls for TRL level to go from 4 to 8
  - M/P will allow Orion to commercialize the technology, Boeing to get a better supplier and NASA to lower its cost
- Multi-discipline review of performance including Small Business Specialist, contracting officer, COTR, and Small Business Technical Advisor/SBIR POC



# NASA Vendor Data Base

## <https://NVDB.nasa.gov>

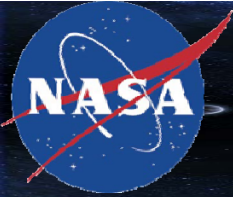
- Launched Nov. 17<sup>th</sup>
- Goal is to track all Vendors interested in doing business with NASA
- Market research by Procurement/Technical/Program personnel
- Benefits
  - Consolidate every Center's database into one
  - Open to all NASA employees for market research
  - E-mail capability to vendors for RFI, draft RFPs, Sources Sought Notices
  - Vendors can post capability briefs in any format
  - Company info from Central Contractor Registration flows directly into our database
  - Database is refreshed each year by contacting vendors automatically
  - Vendors can receive e-mails from SBS
  - Database training given to the Center SBS's in Jan. 2010



# NASA Small Business Training

- **Small Business Training for the Acquisition Professional**
  - Two-day course on the basics of Small Business
  - Geared for program and procurement workforce
  - Classes which started in June 2009, have been held at ARC, DFRC, GRC, GSFC, JSC, MSFC, and KSC and will be held at the other Centers over the next few months
- **Training on the Small Business Utilization Clause (PIC 09-07)**
  - This half day training is geared for the Source Evaluation Board
  - Training provides tools to evaluate Subcontracting Plans
  - Commitment to the Small Business Program
  - Small Disadvantaged Business participation





# NASA OSBP Initiatives

- Established Industry Councils & Joint Counseling Initiatives
- Established annual Small Business Industry Awards to recognize small business primes, small business contractors, and large primes that have made major contributions to NASA's Small Business Program at the Center level as well as at the Agency level
- Established the Administrator's Cup Award, which will be presented to the Center that has demonstrated the "best" overall Small Business Program, as documented in the year's final Small Business Program Report



# Marshall at a Glance



**\$2.7 billion**  
budget in fiscal year 2009



**6<sup>th</sup> largest**  
employer in the Huntsville -  
Madison county area



**> 7,000**  
employees at Marshall  
(2,634 civil service employees in  
fiscal year 2008)



**4.5 million**  
square feet of space occupied  
in Huntsville



**\$1.26 billion (FY2009)**  
impact to Alabama  
economy



**MAF**  
2.2M square feet of  
manufacturing space at  
Michoud Assembly Facility in  
New Orleans

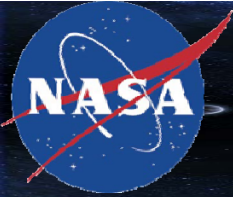
*Marshall is an engine of opportunity for its community and beyond.* 19



# Space Shuttle Full Scale Production Support at MSFC

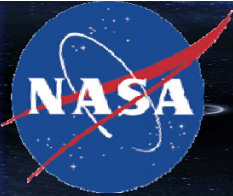
- Space Shuttle flying since 1981
- Two flights remaining
- MSFC Programs:
  - External Tank
  - Solid Rocket Booster
  - Solid Rocket Motor
  - Space Shuttle Main Engine





# Project Constellation Programs Supported at MSFC

- Ares I:
  - First Stage
  - J-2X Liquid Engine
  - Upper Stage Avionics
  - Upper Stage Production
  
- Continue to work on program of record



# Science at MSFC

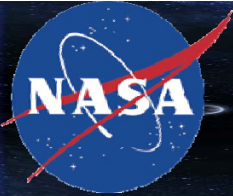
- Lunar Robotics
- Discovery/New Frontiers
- Chandra Science Center



# MSFC FY 2009 Small Business Achievements (In millions)

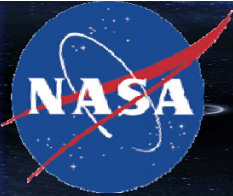
Categories	Directs	Subcontracting	Cumulative	% Achieved
Procurement \$			\$ 2,243.8	
SB	\$ 194.1	\$ 401.1	\$ 595.2	26.5%
SDB	\$ 82.4	\$ 217.1	\$ 299.5	13.3%
WOSB	\$ 42.0	\$ 124.1	\$ 166.1	7.4%
HUBZone SB	\$ 34.1	\$ 30.3	\$ 64.4	2.9%
VOSB	\$ 31.1	\$ 64.8	\$ 95.9	4.3%
SDVO SB	\$ 27.7	\$ 14.6	\$ 42.3	1.9%





# MSFC Initiatives

- Web based directories
- MSFC Joint Counseling
- Procurement Small Business Action Team
- MSFC Small Business Executive Leadership Team
- Marshall Prime Contractor Supplier Council
- Marshall Small Business Alliance Meeting



# MSFC Small Business Program Contacts

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Location: Bldg. 4202, Room 211

[http://ec.msfc.nasa.gov/msfc/doin\\_bus.html](http://ec.msfc.nasa.gov/msfc/doin_bus.html) (Web Site)



# Future Programs

- Heavy Lift and Propulsion Research and Development Program
- Exploration Precursor Robotic Program
- Space and Exploration Technology Demonstration Program  
Development:
  - Surface Power Systems
  - Advanced In-Space Propulsion
  - Cryogenic Fluid Management
  - Advanced Materials
  - Environmental Control Life Support Systems