

# 2017 NSBE Space Project Management Meeting Corporate Partnership Packet



July 6-9, 2017



The 2017 Space Project Management Meeting is a meeting of the NSBE Space Special Interest Group conducted by the NSBE Houston Space Professionals Chapter with assistance from the Dallas Professionals Chapter and Lockheed Martin Fort Worth Professionals Chapter



Greetings,

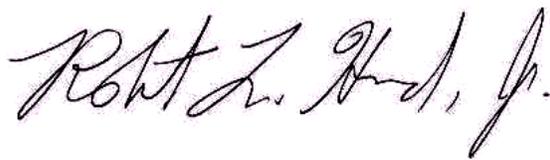
On behalf of the Houston Space Professionals Chapter of the National Society of Black Engineers (NSBE) and the NSBE Space Special Interest Group (SIG) we invite you to partner with the 2017 NSBE Space Project Management Meeting.

The Space Project Management Meeting is the annual central organizing activity for NSBE's suite of space-related projects and meetings. At this meeting, members of the Space SIG Board of Directors will strategize with project team members and conference planning committee members to evaluate Space SIG activities and determine goals and deliverables.

The Space SIG has authored dozens of space-related technical papers and is a continual source of innovation within the space community of the United States, with a membership that includes scientific and technical experts from many of the nation's leading aerospace agencies, corporations, research laboratories, and universities.

The Space Project Management Meeting ensures that the Space SIG continues to achieve technical excellence but this event requires the support of corporate partners to maximize its impact. In the upcoming pages you will journey through the 2017 Space Project Management Meeting and prospective partnerships. We look forward to working with you to achieve mutually beneficial results for our NSBE Space professionals and corporate partners. Please contact us today to explore opportunities.

Sincerely,



Robert L. Howard, Jr., Ph.D.  
Chapter President, NSBE Houston Space Professionals  
Director, NSBE Space Special Interest Group  
[president@nsbe-hsp.org](mailto:president@nsbe-hsp.org)



## NSBE History

NSBE began in 1971 as the Purdue University Black Society of Engineers (BSE). The purpose of the student organization was to help improve the recruitment and retention of black engineering students. In the late 1960s, a devastating 80 percent of the Black freshmen entering the engineering program at Purdue dropped out. In 1975, the Purdue BSE merged with similar organizations from 32 US colleges and universities to form the National Society of Black Engineers. The following year, NSBE was incorporated in Texas as a 501(c)3 non-profit organization.

From this beginning NSBE has grown, expanding in 1988 from a college-only society to include pre-college (NSBE Jr.) and technical professional (NSBE Professionals) membership categories. In the early 1990s NSBE began to expand internationally with chapters in Canada and England. NSBE currently operates NSBE Jr., collegiate, and Professionals chapters in the United States, Cameroon, Canada, Gambia, Germany, Ghana, Jamaica, Ko, Nigeria, Sudan, Switzerland, Trinidad, and the United Kingdom, with a total membership in excess of 16,000 members worldwide.

The mission of NSBE is to increase the number of culturally responsible Black Engineers who excel academically, succeed professionally and positively impact the community. Headquartered in Alexandria, Va., NSBE offers academic excellence programs, scholarships, leadership training, professional development and access to career opportunities for its thousands of members annually.

The purpose of the NSBE Professionals is to support NSBE in a way that: develops and enhances NSBE programs, increases technical awareness, encourages scholastic achievement, and stimulates enthusiasm in the Black engineering community in order to promote technical expertise, professionalism, and fellowship among Black engineers. A central thrust of NSBE Professionals is its Special Interest Groups (SIGs). NSBE SIGs are industry-focused technical organizations that serve to focus the scientific and engineering capabilities of NSBE Professionals members. Currently NSBE fields nine SIGs: Energy, Environmental Engineering, Entrepreneurship, Health Care, Information Technology, Process Improvement, Public Policy, Space, and Women in Science & Engineering.



## **Space SIG History**

The Space Special Interest Group of the National Society of Black Engineers (also known as NSBE Space or the Space SIG) was established in 2005 as a joint effort of NSBE Professionals chapters at Johnson Space Center, Greenbelt Space Flight Center, and Stennis Space Center. It is the intent of the Space SIG to serve as the center of NSBE excellence and technological capacity in space-related fields, and ultimately to serve as a voice of the Black community in space-related endeavors. The SIG has been recognized within NSBE for its excellence, earning numerous recognitions for technology advancement and technical leadership.

NSBE Space operates the biennial NSBE Aerospace Systems Conference (NSBE-ASC) in even-numbered years, the only known African American aerospace technical conference. First held in 2010 with an attendance of approximately 260, NSBE-ASC is currently preparing for its fifth installment, anticipated to be held in the summer of 2018, in Arlington, VA.

The Space SIG also conducts independent technical research in concert with NSBE Professionals chapters at NASA centers. Projects include lunar architecture design, Africa space development, Mars analogue mission studies, and space policy development. In support of these projects, the Space SIG holds a biennial engineering working session in odd-numbered years. Known as the Space Technical Session (STS), the fourth biennial STS-2017 will be held in January 2017 in Denver, CO.

Finally, the Space SIG participates in annual space advocacy through its participation in the Space Exploration Alliance, a coalition of space-related nonprofits including the National Space Society, Planetary Society, Mars Society, Explore Mars, Moon Society, and AIAA.

## **NSBE Space Project Management Meeting History**

The NSBE Space Project Management Meeting was originally held in 2006 at NSBE's World Headquarters in Alexandria, VA. The event was instituted in order to provide a forum for the Space SIG's Board of Directors to meet annually to evaluate Space SIG progress and plan activity for the upcoming NSBE fiscal year. From 2011-2013, it was co-located with the NSBE Alumni Summit, an annual networking event. During this time, the meeting was held in Ft. Lauderdale, Florida; Las Vegas, Nevada; and San Juan, Puerto Rico. Beginning with the 2012 event in Las Vegas, Space SIG project leads were invited to participate and Space SIG conference planning teams were invited in 2013. Recently, the Space SIG Board decided to move the meeting and selected NASA Johnson Space Center as the site for the 2014 meeting and NASA Goddard Space Flight Center for 2015. The 2016 meeting was held in Daytona Beach Florida as part of a Space SIG initiative to build a strategic partnership with Embry-Riddle Aeronautical University. In 2017, the meeting will be held on the campus of the University of Texas – Dallas to increase collaboration with UTD faculty and students.

## **Partner with the 2017 NSBE Space Project Management Meeting**

NSBE invites federal agencies, research laboratories, corporations, and nonprofits within the space industry to partner with the 2017 NSBE Space Project Management Meeting. Partnership is more than merely providing a financial contribution, but also includes identifying strategic linkages between your company or agency and the work of the Space SIG.

Partnering positions companies and agencies to maximize the relevance of the Space SIG to important industry technical challenges. Current Space SIG projects have already demonstrated relevance to NASA exploration initiatives. The Project Arusha long range lunar rover's medical and maintenance workstations were identified as items of interest by leadership of the NASA Human Factors Technical Discipline Team. The former Macho Mengi space telescope interferometry project has spun off from NSBE to become a business enterprise under the startup company Exoplanet Technologies.

Corporate partners can send employees to join NSBE's broad spectrum of space-related projects at the meeting and identify focus areas that will result in innovative technology developments, training opportunities, or architectural studies of benefit to the partner, thus leveraging the volunteer skill base of the Space SIG. Members also receive publication opportunities through the presentation of Space SIG research at aerospace industry conferences.

Companies and agencies who maintain a close alignment with the Space SIG are also well positioned to maximize opportunities to leverage the SIG as a vehicle to pursue multi-company/multi-agency collaborations, or to capitalize on member career transitions.



## Space SIG Activities

The Space SIG is known as one of the most active Special Interest Groups in NSBE because of its array of space-related technical projects and conferences. The Space Project Management Meeting helps SIG leaders to evaluate performance to date for the following activities and to set milestones to guide activity for the upcoming year.

### Technical Projects

#### Project Arusha

Swahili for “he makes fly [into the skies]”, Arusha is the name of NSBE’s conceptual design lunar project intended to explore engineering implications of a transition from Apollo-style lunar outposts to futuristic lunar colonies. Arusha is based on the concept of a 48-person lunar settlement based at the South Pole of the Moon with distributed man-tended outposts located across the lunar surface. Project work is currently focused on a long range pressurized rover, intended to be the primary mode of transportation between the settlement and outposts. Numerous individual Arusha project teams address conceptual designs of the rover cabin structure, workstations, and other vehicle subsystems.

#### East Africa Spaceport Feasibility Study

NSBE is investigating the feasibility and market potential of a spaceport in the equatorial regions of Africa, particularly within the nations of Kenya or Tanzania. Upcoming work will identify candidate payloads and boosters best served by an African equatorial launch facility and determine technical drivers for the site.

#### Mars Desert Research Station (MDRS) NSBE Expedition

The MDRS is a Mars analogue facility owned and operated by the Mars Society in the Utah desert. It is a medium fidelity simulator of a Mars habitat that is made available for teams of researchers to act as simulated crew during multi-day expeditions. NSBE Space is developing plans to send a six-person expedition to MDRS. Additionally, NSBE Space is investigating flight crew equipment to be used by the crew; in particular a handheld sensor in the shape of a *Star Trek* Tricorder. NSBE Tricorder work will determine if tricorder-like sensors can add value to a crew at MDRS.

#### Visions for Human Space Flight

NSBE Space commissioned this working group to investigate technical challenges surrounding NASA human space flight. This group has produced *Unlimited Horizons*, a white paper describing a programmatic approach for a coordinated human space flight agenda that renews US space leadership and establishes commercial markets beyond Low Earth Orbit. Forward work includes a continuing release strategy for *Unlimited Horizons* and identifying supplemental research topics to support the recommendations contained within the paper.

## **Outreach**

### **NSBE JEDI**

JEDI (Jumpstart to Engineering Design and Invention) is an outreach project intended to provide space engineering-based outreach to Black youth based on their academic matriculation, ranging from Kindergarten through Undergraduate. We seek to establish and maintain a mechanism to leverage NSBE Space SIG technical activity in a way that inspires Black youth to pursue careers in the space industry. Particular emphasis is placed on the development of practical, hands-on engineering skills. JEDI Padawans (undergraduates) will work as apprentices alongside Space SIG members on Space SIG technical projects, with project-related outreach materials provided to students in grades K-12. JEDI is also in early phases of developing a Space Camp scholarships program to send high school students to the US Space Camp in Huntsville, Alabama.

## **Meetings**

### **2018 Space Project Management Meeting**

The SPMM is held annually, with the SPMM immediately following the Space Technology Session serving as the kickoff planning meeting to a two-year design and programming cycle. The SPMM occurring in an even-numbered year is a mid-course correction meeting that enables teams to evaluate progress and adjust program tactics to ensure Space SIG success in its activities. The 2018 SPMM will be held winter of 2018, with a location to be selected at the 2017 SPMM.

### **2018 Aerospace Systems Conference**

The signature event of the Space SIG is the biennial Aerospace Systems Conference, held in even-numbered years. It is the only known African American scientific and technical conference in the world dedicated to the presentation of aeronautic and astronautic scientific and engineering data. The conference also features an industry trade show, tours of local aerospace facilities, aerospace technical training courses, awards ceremonies, and keynote speeches from African American aerospace senior executives and technical experts. The 2018 conference will be held summer of 2018, in the Washington DC metro area.

### **2019 Space Technology Session (STS-2019)**

With a name intended to pay homage to the Space Shuttle program, STS-2019 is a focused concentration of engineering work scheduled during the MLK holiday weekends of odd-numbered years to also pay tribute to the legacy of Dr. Martin Luther King, Jr. Participants will be assigned to the previously mentioned technical project teams and will engage in a focused 2.5-day effort to design, fabricate, or test aerospace systems surrounding each project. The weekend also includes a one-day ski networking social and a collaborative event with the Colorado School of Mines Diversity Office and NSBE chapter during their annual MLK program.

## 2017 NSBE Space Project Management Meeting Agenda

*Note: All agenda items are tentative and subject to change.*

Date	Start Time	Topic
Wednesday, July 5	8:00 AM	Travel Day
Thursday, July 6	8:00 AM	Project Management Training Course 1
	12:00 PM	Opening Luncheon
	1:00 PM	Individual Team Breakout Planning Session 1
	5:30 PM	Space Leadership Networking Event
Friday, July 7	8:00 AM	Project Management Training Course 2
	12:00 PM	Space Leadership Luncheon
	1:00 PM	Individual Team Breakout Project Planning Session 2
	6:00 PM	Group Dinner and Social
Saturday, July 8	9:00 AM	Project Management Training Course 3
	1:00 PM	Working Lunch
	2:00 PM	Individual Team Breakout Project Planning Session 3
	6:00 PM	Group Dinner and Social
Sunday, July 9	9:00 AM	Individual Team Breakout Project Planning Session 4
	1:00 PM	Closing Luncheon and Wrap-Up Session
	3:00 PM	Meeting Departure



## **Partner Exhibit Levels and Benefits**

### **Platinum Partner (\$10,000)**

- Space Leadership Networking Event: four display tables and approximately 400 square foot floor space, subject to facility limitations
- Opportunity to provide a 10-minute greeting to participants
- Naming rights for any identified event partnerships (e.g. “Company Name” “Event”)
- Waived Space Project Management Meeting registration for 10 company employees
- Special recognition during meeting
- Copy of the Space SIG Leadership Network Directory of meeting participants
- Company-supplied banners and artwork displayed in session rooms and corridors, subject to facility rules
- Company authored feature article about company product lines and its technical collaboration with NSBE on Space SIG website
- Highest priority consideration for meal event speaker or session facilitator opportunities
- Access to supply company branding items to participants
- Listing and link on Space SIG website

### **Titanium Partner (\$5,000)**

- Space Leadership Networking Event: one display table and approximately 225 square foot floor space for popup or other floor-mounted display, subject to facility limitations
- Opportunity to provide a 5-minute greeting to meeting participants
- Naming rights for any identified event partnerships (e.g. “Company Name” “Event”)
- Waived Space Project Management Meeting registration for 5 company employees
- Special recognition during meeting
- Access to supply company branding items to participants
- Listing and link on Space SIG website

### **Silver Partner (\$4,000)**

- Space Leadership Networking Event: one display table and approximately 144 square foot floor space, subject to facility limitations
- Naming rights for any identified event partnerships (e.g. “Company Name” “Event”)
- Waived Space Project Management Meeting registration for 4 company employees
- Special recognition during meeting
- Access to supply company branding items to participants
- Listing and link on Space SIG website

### **Aluminum Partner (\$3,000)**

- Space Leadership Networking Event: one small display table and approximately 81 square foot floor space, subject to facility limitations
- Naming rights for any identified event partnerships (e.g. “Company Name” “Event”)
- Waived Space Project Management Meeting registration for 3 company employees
- Special recognition during meeting

- Access to supply company branding items to participants
- Listing and link on Space SIG website

**Composites Partner (\$2,000)**

- Space Leadership Networking Event: one small display table and approximately 36 square foot floor space, subject to facility limitations
- Waived Space Project Management Meeting registration for 2 company employees
- Special recognition during meeting
- Access to supply company branding items to participants
- Listing and link on Space SIG website

**Oak Partner (\$1,000)**

- Space Leadership Networking Event: display space for 9 square foot floor space, subject to facility limitations
- Waived Space Project Management Meeting registration for 1 company employee
- Access to supply company branding items to participants
- Listing and link on Space SIG website

**Fiberglass Partner (\$500)**

- Space Leadership Networking Event: display space for one untended roll up vertical banner up to 36” wide or 3 square foot floor space, subject to facility limitations
- Access to supply company branding items to participants
- Listing and link on Space SIG website

- Naming rights are granted on a first-come-first-served basis and partnership must be received by June 1 to guarantee naming on printed conference material.
- Training instructor and session facilitator opportunities are filled on a first-come-first served basis while available slots last.
- Materials to be supplied to conference participants must be received in Dallas by July 1 to guarantee inclusion.
- Meeting participants will be given the opportunity to opt in or out of the Space SIG Leadership Network Directory during conference registration.

**Event Partnership Opportunities**

If desired, SPMM partners may designate that their partnership be applied to specific meeting events, thus becoming the official partner of that activity. Event partnership is not required. If no event partnership is declared, the NSBE Houston Space Professionals Chapter will allocate partnership received as needed to meet meeting objectives. Event partnership is provided as a means for partners to focus company branding in a particular direction. In order to become an event partner an interested partner must participate at the appropriate partner level on the preceding page at a sufficient amount or greater to meet the minimum level indicated by the following event descriptions:

### **Attendee Packet**

Tote or messenger bag displaying meeting and NSBE logos to contain meeting materials. Event partner may display company-provided logo on bag, subject to vendor color and positioning limitations.

***Minimum Partnership: \$1,500***

### **Meeting Logistics**

Photocopying, printing, and shipping expenses for handouts, displays, and other meeting items. Event partner may display company-provided signage in the Main Lobby.

***Minimum Partnership: \$1,500***

### **Meeting Refreshments**

Light refreshments available to meeting participants during leadership planning sessions. Event partner may set up company-provided displays or signage near refreshment stations.

***Minimum Partnership: \$500***

### **Space Leadership Networking Event**

Networking event held on the opening day of meeting. Event partner may set up company-provided displays during mixer and may provide personnel in corporate attire to host mixer activities.

***Minimum Partnership: \$3,000***

### **Ground Transportation**

Rental or charter vehicles for participant and equipment transportation between event venues and hotel. Event partner may display company-provided signs on vehicles.

***Minimum Partnership: \$1,000***

### **Leadership Training**

Subject matter experts to provide leadership, project management, and systems engineering training for Space SIG technical project teams. Event partner may display company-provided signs in sessions conducted by partnered subject matter experts.

***Minimum Partnership: \$5,000 (three available)***

### **Project Team Travel Grants**

Airfare and hotel expenses for non-local participants to attend the meeting. Event partner will receive resumes and contact information for recipients and may specify eligibility criteria.

***Minimum Partnership: \$5,000***

### **Deep Space Networking Cruise**

Private evening cruise with dinner. Event partner will be permitted to set up onboard displays and distribute materials to participants during the cruise, subject to any restrictions imposed by the boat operator.

***Minimum Partnership: \$3,000***

## Partner Commitment Process

The NSBE Houston Space Professionals Chapter is the financial agent for the NSBE Space Project Management Meeting and all partnerships are paid directly to the Houston Space Professionals Chapter. The chapter has an online portal for receipt of partnership contributions. Visit <https://form.jotform.us/nsbespace/SPMM2017partner> to sign up for partnership opportunities.

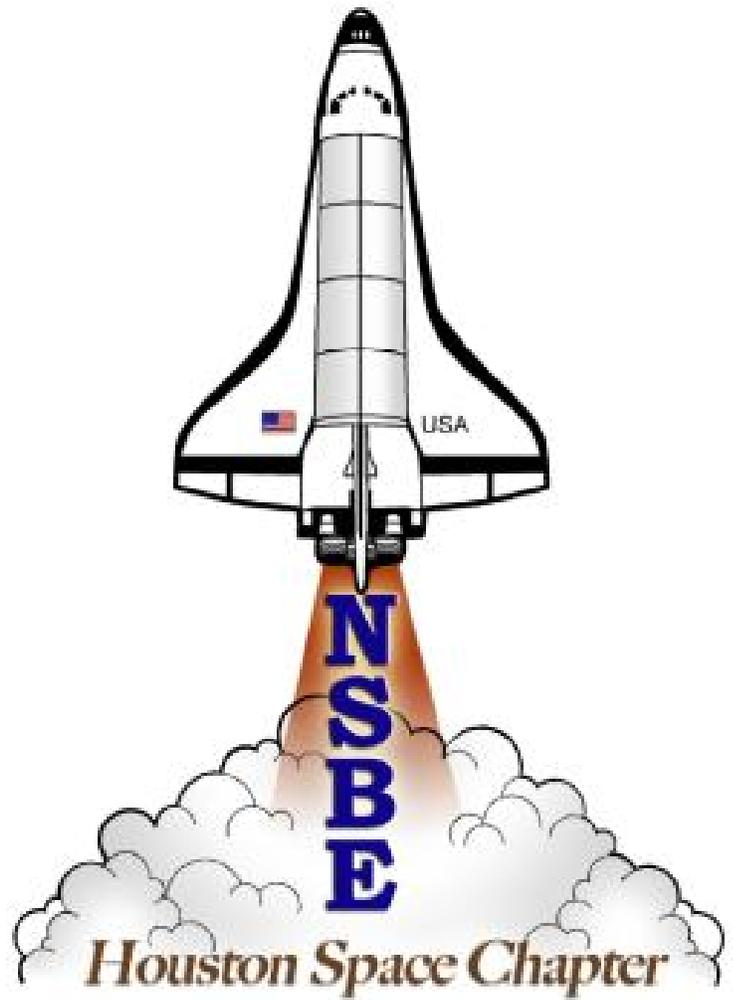


Payment is received online through a PayPal processing system. PayPal is limited to contributions up to \$10,000 in value. Please contact [president@nsbe-hsp.org](mailto:president@nsbe-hsp.org) in the event of a desired contribution in excess of this value or to make payment through means other than PayPal.

Payment may also be made through check. Checks should be made payable to NSBE Houston Space Chapter and addressed to:

NSBE Houston Space Chapter  
PO Box 58005  
Houston, TX 77258

Please direct all questions regarding this process and confirmation of partnership to [president@nsbe-hsp.org](mailto:president@nsbe-hsp.org). All other questions regarding the Space Project Management Meeting can be emailed separately to [spacedirector@nsbe.org](mailto:spacedirector@nsbe.org).



**Your partnership is not confirmed until it is accepted by an authorized representative of the NSBE Houston Space Professionals Chapter.**

