Marshall Technology Exposition

Join us on the journey

As of 10/15/14

The Marshall Space Flight Center proudly presents Marshall Technology Exposition – the Center's premiere event showcasing the emerging technologies under development by the Marshall team. This event will feature over 30 exhibits along with technology- and partnership-focused panels that invite businesses to join NASA on the journey of exploration into deep space. NASA technologists and senior executives, along with business and academia, come together at this one event to discuss the challenges associated with exploration, technologies required, and opportunities to partner in developing those technologies that enable global exploration ambitions.

U.S. Space and Rocket Center – Davidson Center for Space Exploration

Monday, October 27, 2014

8:00 am **Registration / Networking / Exhibits Open**

8:45 am **Welcome to the Davidson Center for Space Exploration**
Dr. Deborah Barnhart, CEO, U.S. Space and Rocket Center

9:00 am **Destination Station: ISS Technology Forum**
The Destination Station: ISS Technology Forum is an interactive dialogue about how the International Space Station is being used as a test bed for technologies NASA needs to explore deep space destinations like an asteroid or Mars. Space station representatives who are using the station to test technologies will engage the audience in a conversation about vital role the station plays in exploration technology development. Social media followers can join the discussion via #AskNASA.

- Jeff Sheehy (Overview), Senior Technologist, Space Technology Mission Directorate
- Robyn Gatens (ECLSS), System & Technology Demonstration Manager, NASA HQ ISS Division
- Andres Martinez (SPHERES), SPHERES National Lab Facility, Project Manager
- Richard C. Reinhart (SCaN Testbed), Principle Investigator, SCaN Testbed
- Niki Werkheiser (3-D Printing), NASA 3D Printing in Zero-G Project Manager

10:15 am **Marshall Technology Exposition – Welcoming Address**
Patrick Scheuermann, Director, NASA Marshall Space Flight Center

10:30 am **Applied Technologies for Exploration**

The Marshall team is working to solve the known and expected challenges of lifting from Earth and deep space exploration. Panelists will discuss what we are doing today and what we need to focus upon longer-term to ensure the realization of our global ambition in the success of the SLS Program and of all our human, robotic, and science exploration missions. The panel experts will share their perspective and invite questions about exploration technology development needs and initiatives.

Moderator: Dr. Dale Thomas, Associate Director – Technical, MSFC

Panelists:

- Dr. Jessica Gaskin, Research Astrophysicist, MSFC
- Reginald Alexander, Advanced Concepts, NASA MSFC
- Dr. Lisa Watson-Morgan, Chief Engineer, MSFC
- Dr. Fred Bickley, Spacecraft/Payload Integration and Evolution Office, Space Launch System Program Office, NASA MSFC

12:00 noon **Lunch Break,** Davidson Center, Apollo Terrace

Exhibits open in the Saturn V Hall

1:00 pm **Afternoon Session Kickoff**

Jose Matienzo, Manager, Marshall Exchange, NASA MSFC

Tracy Lamm, Chairperson, National Space Club – Huntsville Chapter

1:15 pm **Keynote Address: Technology Drives Exploration**

Dr. Michael Gazarik, Associate Administrator, NASA Space Technology Mission Directorate, NASA HQ

1:50 pm **Emerging Space Technology Developments**

It is difficult to predict where an innovative idea will originate, what it will grow into, and what problems it may be employed to solve. Innovators within government, academia, and commercial industry are encouraged to collaborate on new emerging technologies that may enable spaceflight capabilities that were previously unattainable. This panel session will explore some of these emerging technology areas and lead a discussion on how the community at large may participate in developing technologies that will allow the expansion of human presence beyond low-Earth orbit and into the solar system.

Moderator: Dr. David Miller, NASA Chief Technologist

Panelists:

- Steve Gaddis, Program Director, Game Changing Development, NASA LaRC
- Dr. Tom Koshut, Associate Vice President for Research, UAHuntsville
- Dr. Dan Schumacher, Director, Science and Technology Office, NASA MSFC
- Dr. Andrew Keys, Chief Technologist, NASA MSFC

3:15 pm **Technology Partnership Opportunities**

Interested in technology development partnership with NASA? Our panelists will help you to understand how you can further your business goals and engage with Marshall in satisfying, meaningful, and profitable ventures. Through discussions and real-time useful tips, you'll learn about how you can work with us whether you are interested in procurement or co-investment opportunities. Many successful technologies that exist today are a direct result of partnerships between Marshall and our industry partners; we'll identify ways for you to collaborate with the Center as we continue the journey together.

Moderator: Earl Pendley, Office of Procurement, NASA MSFC

Panelists:

- Scott Hutchins, Technical Lead for Marshall Cooperative Agreement Notice, Center Strategic Development and Integration Office, NASA MSFC
- Sam Ortega, Manager, Centennial Challenges, NASA MSFC
- Terry Taylor, Manager, Technology Transfer Office, NASA MSFC
- Chris Crumbly, Manager, Spacecraft/Payload Integration and Evolution Office, Space Launch System Program Office, NASA MSFC
- Jody Singer, Director, Flight Programs and Partnerships Office

4:30 **Closing Remarks**

Johnny Stephenson, Acting Director, Office of Strategic Analysis and Communications, NASA MSFC