The 11th Annual

# Wernher von Braun Memorial Symposium

## *Galvanizing U.S. Leadership in Space*

October 23-25, 2018
Charger Union Theater
The University of Alabama in Huntsville

**An American Astronautical Society Symposium**

*in conjunction with*

**The University of Alabama in Huntsville**, and the

**NASA Marshall Space Flight Center**

American Astronautical Society

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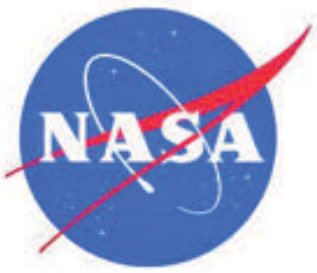


## NASA Marshall Space Flight Center

# Program

**Event Wi-Fi: UAHEvents; ChargerNation**

## Tuesday, October 23

6:00 p.m. **Von Braun Symposium Welcome Reception –** Student Services Building
***Sponsored by The University of Alabama in Huntsville***

## Wednesday, October 24

7:00 a.m. Registration Opens / Networking / Continental Breakfast – Charger Union
***Sponsored by a.i. solutions and The Aerospace Corporation***

8:00 a.m. **Welcome Remarks** – Charger Union Theater
- Robert Altenkirch, President, The University of Alabama in Huntsville
- Alan DeLuna, Executive Vice President, American Astronautical Society
- Jody Singer, Director, NASA Marshall Space Flight Center

8:30 a.m. **Exploration Update – Key Industry Perspectives**
- Bill Hill, Deputy Associate Administrator, Exploration Systems Development, NASA HQ (Moderator)
- Andy Allen, Vice President and General Manager, Test and Operations Support Contract, Jacobs
- Mike Hawes, Vice President and Orion Program Manager, Lockheed Martin Space Systems Company
- Charlie Precourt, Vice President and General Manager, Propulsion Systems Division, Northrop Grumman
- John Shannon, Vice President and Program Manager, Space Launch System, Boeing Defense, Space & Security
- Julie Van Kleeck, Vice President, Advanced Space Technology Development and Strategy, Aerojet Rocketdyne

9:30 a.m. **Lunar Surface Operations**
- Rob Chambers, Senior Manager Systems Engineering, Lockheed Martin
- Clive Neal, Professor of Lunar Geology, University of Notre Dame
- Harrison "Jack" Schmitt, Apollo 17 Astronaut (Ret.), U.S. Senator (Ret.)

10:25 a.m. Break – ***Sponsored by a.i. solutions and The Aerospace Corporation***

10:45 a.m. **VBExtra – Future SLS Payloads**
Kimberly Robinson, Payloads Manager, Spacecraft Payload Integration & Evolution (SPIE) Office, SLS Program, NASA MSFC

11:15 a.m. **Aerospace Workforce Development: Progress, Challenges, and Opportunities**

- Gale Allen, Executive Director, American Society for Gravitational and Space Research (ASGSR) (Moderator)
- Lucia Cape, Senior Vice President, Economic Development, Industry Relations & Workforce, Chamber of Commerce of Huntsville/Madison County
- Dan Dumbacher, Executive Director, American Institute of Aeronautics and Astronautics
- Shankar Mahalingam, Dean of Engineering, The University of Alabama in Huntsville
- Mark Mozena, Manager, NASA/FAA Relations Washington Operations, United Launch Alliance
- Shane Prestegard, Lead Recruiter, Dynetics

12:30 p.m. **Luncheon** – Student Services Building – ***Sponsored by Lockheed Martin***
Guest Speaker: Jody Singer, Director, NASA Marshall Space Flight Center

2:00 p.m. **ISS Commercialization**

- Bobby Watkins, Director, Human Exploration Development and Operations (HEDO) Office, NASA MSFC (Moderator)
- Lee Jankowski, Senior Director of Business Development, Teledyne Brown Engineering
- Mark Kinnersley, Orion European Service Module Resident Liaison, Airbus DS Space Systems Inc.
- Jeffrey Manber, CEO, NanoRacks
- Mike Read, Manager, Commercial Space Utilization, NASA JSC

3:00 p.m. **Commercial Space Outlook**

- Mike Gold, Vice President for Regulatory, Policy, and Government Contracts, Maxar Technologies (Moderator)
- Josh Brost, Senior Director, Government Business Development, SpaceX
- John Elbon, Chief Operating Officer, United Launch Alliance
- Peter McGrath, Director of Global Sales and Marketing – Space Exploration, The Boeing Company
- John Steinmeyer, Director of Space Launch Business Development, Northrop Grumman Innovation Systems

3:55 p.m. Break – ***Sponsored by a.i. solutions and The Aerospace Corporation***

4:15 p.m. **VBExtra – The Intersection of Space Science and Exploration**
Thomas Zurbuchen, Associate Administrator, Science Mission Directorate, NASA HQ

4:45 p.m. **Advanced Exploration Technologies**

- Ron Birk, Associate Principal Director, Development Directorate, Civil Systems Group, The Aerospace Corporation (Moderator)
- Jonathan Cirtain, Vice President of Advanced Technologies, BWX Technologies, Inc.
- Robyn Gatens, Deputy Director, ISS, NASA HQ
- Jim Reuter, Acting Associate Administrator, Space Technology Mission Directorate (STMD), NASA HQ
- Al Tadros, Vice President, Space Infrastructure and Civil Space, SSL

6:15 p.m. **Reception and Student Poster Displays** – The Huntsville Museum of Art
***Sponsored by United Launch Alliance and KBRWyle***

## Thursday, October 25

7:00 a.m. AAS Corporate Members Breakfast (Invitation Only)

7:00 a.m. Registration Opens / Networking / Continental Breakfast – Charger Union
***Sponsored by Northrop Grumman***

8:00 a.m. **VBExtra – Remembering Apollo**
Deborah Barnhart, Chief Executive Officer and Executive Director of the U.S. Space & Rocket Center

8:30 a.m. **National Space Policy: A National Space Council Advisory Members Discussion**
- Dan Dumbacher, Executive Director, American Institute of Aeronautics and Astronautics (Moderator)
- Eileen Collins, Astronaut (Ret.), Colonel, USAF (Ret.)
- Mary Lynne Dittmar, President & CEO, Coalition for Deep Space Exploration
- James O. Ellis, Admiral, USN (Ret.)

9:45 a.m. **VBExtra – National Security and Space**
Stephen L. Kitay, Deputy Assistant Secretary of Defense for Space Policy, U.S. Department of Defense

10:15 a.m. Break – ***Sponsored by Northrop Grumman***

10:25 a.m. **VBExtra – Space Defense Technology**
Mitch Nikolich, Director, Defense Research and Engineering for Research and Technology, U.S. Department of Defense

11:15 a.m. **Gateway: Next Steps**
- Joseph Pelfrey, Deputy Manager, Human Exploration Development and Operations Office, NASA MSFC (Moderator)
- Steven W. Clarke, Deputy Associate Administrator for Exploration, NASA HQ
- Jason Crusan, Director, Advanced Exploration Systems, NASA HQ
- Ginger Flores, Gateway Habitat Element Manager, NASA MSFC
- Vanessa E. Wyche, Deputy Director, NASA JSC

12:30 p.m. **Luncheon** – Student Services Building – S***ponsored by The Boeing Company***
- Guest Speaker: Jim Bridenstine, NASA Administrator
- Announcement of Student Poster Contest Winners
  ***Student Poster Contest sponsored by Aerojet Rocketdyne***
- Presentation of Ordway Award

2:30 p.m. Adjourn

## Thursday, October 25

**30th Annual Dr. Wernher von Braun Memorial Dinner**
Thursday, October 25, 2018
U.S Space & Rocket Center, Davidson Center
5:30 p.m. Reception | 7:00 p.m. Dinner | Black Tie / Military Equivalent

**NOTE: This event is NOT associated with the AAS von Braun Symposium and requires a separate admission ticket. For information, visit spaceclubhsv.org.*

## Friday, October 26 (Optional) – *Select option at Symposium registration*

8:30 a.m. **Tour of the United Launch Alliance Rocket Production/RUAG Space USA Large Composite Manufacturing Facility**

- Bus will depart from (and return to) the UAH Executive Parking Lot.
- Tour is limited to 50 spots; first come, first served.
- Only U.S. Citizens/Persons are permitted on the tour.
- Required for the tour: Valid U.S. government agency picture I.D. such as a driver license, passport, or other government-issued I.D.
- Visitor Rules:
  - This will be a walking tour, so please wear comfortable shoes. Please inform ULA if you are unable to walk the tour and we will make every effort to accommodate you.
  - No open-toed or high-heeled shoes over two inches in production areas. Flat closed toe shoes preferred.
  - No cameras. (If cell phone/PDA has a camera capability, the camera function is not to be used while visiting ULA.)
  - No laptops or voice recorders.
  - No shorts in production areas.
  - Those who RSVP will be required to re-confirm prior to boarding the ULA bus. A tour representative will be located at the front check-in desk of the symposium for participants to confirm their attendance.

12:30 p.m. Tour ends

## Thank you to the 2018 Wernher von Braun Symposium Planning Committee

**Planning Committee Chair**
Chris Crumbly – Von Braun Center for Science and Innovation

Terry Abel – Lockheed Martin Corporation
Mark Becnel – RadioBro Corp
Carla Bossard – Aerojet Rocketdyne
Josh Brost – SpaceX
Wes Brown – NASA MSFC
Gregg Burgess – Sierra Nevada Corporation
Sandy Coleman – Northrop Grumman
David Cook – UAH
Bob DaLee – The Boeing Company
Alan DeLuna – AAS Ex-Officio
Kim Doering – Dynetics
Martin Frederick – Northrop Grumman
Lira Frye – United States Army
Michael Gold – SSL, a MAXAR Company
Gene Goldman – BWX Technologies
Becky Griffin – Rebecca Griffin Space
Jeff Irons – ironSclad Solutions, Inc.
Diana King – NASA MSFC
Tom Koshut – UAH
Tracy Lamm – Space Center Houston
Alecia Lauer – United Launch Alliance
Zig Leszczynski – The Aerospace Corporation
Lisa Monaco – Jacobs
Chrystal Morgan – United Launch Alliance
Bruce Morris – RUAG
Kathy Nado – NASA HQ
Charles Scales – Sierra Lobo
Dan Schumacher – Torch Technologies
Mike Ward – Chamber of Commerce of Huntsville and Madison County
Jim Way – American Astronautical Society
Pamela Workings – The Boeing Company

***Thank you for attending the Wernher von Braun Memorial Symposium!***

**Please join us at the**
**57th Annual Robert H. Goddard Memorial Symposium**
**March 19-21, 2019 | Silver Spring, Maryland**
**astronautical.org/goddard**

American Astronautical Society

Founded in 1954, The American Astronautical Society is the premier network of current and future space professionals dedicated to advancing all space activities.

AAS has long been recognized for the excellence of its national meetings, technical meetings, symposia and publications and for their impact on shaping the U.S. space program. Members have opportunities to meet with leaders in their field and in related disciplines, exchange information and ideas, discuss career aspirations and expand their knowledge and expertise.

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