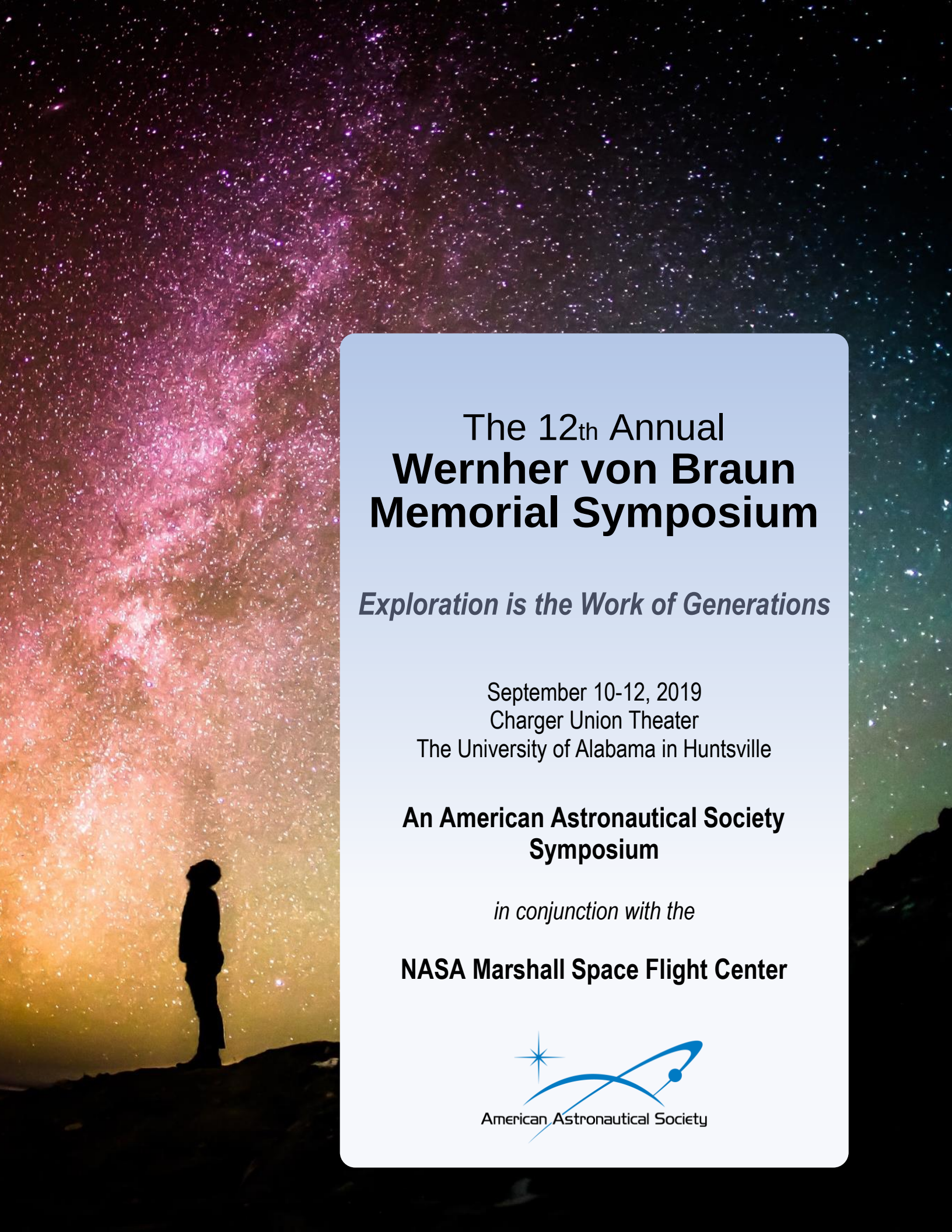

The 12th Annual
Wernher von Braun Memorial Symposium

Exploration is the Work of Generations

September 10-12, 2019
Charger Union Theater
The University of Alabama in Huntsville

An American Astronautical Society Symposium

in conjunction with the

NASA Marshall Space Flight Center

American Astronautical Society

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Program

Event Wi-Fi – UAHEvents; ChargerNation

Tuesday, September 10

UAH Space Commerce Workshop – Charger Union Theater

4:00 pm **ISS: Springboard to LEO Commercialization**
Complimentary for VBS attendees

- Bobby Watkins, Director, Human Exploration Development & Operations Office, NASA Marshall Space Flight Center (Moderator)
- Ron Dunklee, President and CEO, Airbus Defense & Space, Space Systems
- Robyn Gatens, Deputy Director, ISS Division, NASA HQ
- Richard Leach, Chief Strategy Officer, ISS U.S. National Laboratory
- Jeffrey Manber, Chief Executive Officer, NanoRacks
- Amanda O'Connor, Director, Geospatial Solutions, Teledyne Brown Engineering
- Greg Sheppard, Director, Business Development, Craig Technologies
- Carl Walz, Director, Business Development, Oceaneering Space Systems

6:00 pm **Welcome Reception and Student Poster Contest** – Student Services Building
Sponsored by The University of Alabama in Huntsville

Wednesday, September 11

7:00 am **Registration / Networking / Continental Breakfast** – Charger Union
Sponsored by KBR, Inc., Teledyne Brown Engineering, and The Aerospace Corporation

8:00 am **Introduction and Welcome** – Charger Union Theater **(Video)**

- Alan DeLuna, Executive Vice President, American Astronautical Society
- Dale Thomas, Eminent Scholar and Professor of Engineering, The University of Alabama in Huntsville
- Steve Miley, Associate Director, NASA Marshall Space Flight Center

8:25 am **Exploration Systems Update (Video)**

- Tom Whitmeyer, Deputy Associate Administrator (Acting), Exploration Systems Development, NASA HQ (Introductions)
- Yves Lamothe, Systems Engineer, Exploration Ground Systems, NASA Kennedy Space Center (Moderator)
- Yasmin Ali, Docking Manager, Orion, NASA Johnson Space Center
- Charlie Blackwell-Thompson, Launch Director, Exploration Ground Systems, NASA Kennedy Space Center
- Heather Haney, Systems Engineer, Space Launch System, NASA Marshall Space Flight Center

9:25 am **Manufacturing Workforce (Video)**

- John Vickers, Principal Technologist, Space Technology Mission Directorate, NASA Marshall Space Flight Center (Moderator)
- Jennifer Boland-Masterson, Director, Michoud Assembly Facility Operations, The Boeing Company
- Brian Dix, Interim Site Leader - Huntsville, AL, GE Aviation
- Phillip Farrington, Professor Emeritus of Industrial & Systems Engineering UAH and SME Program Manager, TriVector Services
- Dorothy Rasco, Director, Engineering Operations & Facilities, Ball Aerospace
- Charlie Stegemoeller, Senior Director, Business Development, SAIC

10:25 am **Networking Break**

Sponsored by KBR, Inc., Teledyne Brown Engineering, and The Aerospace Corporation

10:45 am **VBExtra: Space Development Agency (Video)**

- Derek Tournear, Director (Acting), Space Development Agency

11:10 am **Interplay Between Space-Related Federal Advisory Committees (Video)**

- Dan Dumbacher, Executive Director, American Institute of Aeronautics and Astronautics (Moderator)
- Admiral Jim Ellis, Chair, Users' Advisory Group, National Space Council
- Mike Gold, Vice President, Maxar Technologies
- Wayne Hale, Director of Human Spaceflight, International Programs, and Energy Services, Special Aerospace Services
- George Nield, President, Commercial Space Technologies

12:30 pm **Luncheon with Guest Speaker** – Student Services Building

- AAS Ordway Award presentation to John M. Logsdon
- Guest Speaker: Doug Comstock, Deputy Chief Financial Officer for Integration, HEOMD Commercial LEO Liaison, NASA HQ

Sponsored by The Boeing Company

2:00 pm **Space Policy Drivers (Video)**

- Martin Frederick, Corporate Director, Civil Space Program, Northrop Grumman Corporation (Moderator)
- Mary Lynne Dittmar, President and CEO, Coalition for Deep Space Exploration, Users' Advisory Group, National Space Council
- Doug Loverro, President, Loverro Consulting
- Eric Stallmer, President, Commercial Spaceflight Federation, Users' Advisory Group, National Space Council

3:00 pm **Moon to Mars (Video)**

- Marshall Smith, Director, Human Lunar Exploration Programs, NASA HQ (Moderator)
- Lindsay Aitchison, EVA Strategy Lead for Advanced Exploration Systems, NASA HQ
- Dan Hartman, Program Manager, Gateway, NASA Johnson Space Center

- Michelle Rucker, Lead, Mars Architecture, NASA Johnson Space Center
- Lisa Watson-Morgan, Program Manager, Human Landing System, NASA Marshall Space Flight Center

4:00 pm **Networking Break**
Sponsored by KBR, Inc., Teledyne Brown Engineering, and The Aerospace Corporation

4:20 pm **VBExtra: AIAA Young Professional Presentations (Video)**
- Robert Hetterich, Engineer, Advanced Concepts Office, NASA Marshall Space Flight Center
- Matthew Hitt, General Engineer, Research and Advanced Concepts Division, US Army Space and Missile Defense Command
- David A. Noever, Sr. Technical Fellow, PeopleTec, Inc.

4:45 pm **Propulsion System Developments (Video)**
- Mary Beth Koelbl, Deputy Director, Engineering Directorate, NASA Marshall Space Flight Center (Moderator)
- Brett Alexander, Vice President, Government Sales & Strategy, Blue Origin
- David Chaves, Director, Space Systems Advanced Programs, Moog Inc.
- Tom Martin, Director, Space Business Development, Aerojet Rocketdyne
- Kent Rominger, Vice President, Strategic Programs, Northrop Grumman Corporation

6:00 pm **Reception** – The Botanical Gardens
Sponsored by Lockheed Martin Space Systems

Thursday, September 12

7:00 am **AAS Corporate Members Breakfast** *(Invitation Only)*
- Janet Karika, Chief of Staff, NASA HQ

7:00 am **Registration / Networking / Continental Breakfast** – Charger Union
Sponsored by S3, Inc.

8:00 am **VBExtra: UAG Exploration Committee Update (Video)**
- General Lester Lyles, Chair, Exploration and Discovery Subcommittee, Users' Advisory Group, National Space Council

8:25 am **Lunar Landers – from CLPS to Human Missions (Video)**
- Jay Jenkins, Program Executive, Office of Exploration, Science Mission Directorate, NASA HQ (Moderator)
- Camille Alleyne, Deputy Manager, Commercial Lunar Payload Services, NASA Johnson Space Center
- Sharad Bhaskaran, Mission Director, Astrobotic
- Greg Chavers, Deputy Program Manager (Acting), Human Landing System, NASA Marshall Space Flight Center
- Seamus Tuohy, Principal Director, Draper

9:35 am **VBExtra: Thomas Zurbuchen (Video)**

- Thomas Zurbuchen, Associate Administrator, Science Mission Directorate, NASA HQ

10:05 am **Networking Break**

Sponsored by S3, Inc.

10:30 am **VBExtra: Artemis Update (Video)**

- Michael Sarafin, Mission Manager, Artemis 1, NASA HQ

11:05 am **Technologies to Enable Moon to Mars Space Exploration (Video)**

- Jim Reuter, Associate Administrator, Space Technology Mission Directorate, NASA HQ (Moderator)
- Steve Altemus, President and CEO, Intuitive Machines
- Robyn Gatens, Deputy Director, ISS Division, NASA HQ
- Wanda Sigur, former Vice President/General Manager, Civil Space, Space Systems, Lockheed Martin
- Niki Werkheiser, Lead, Lunar Surface Innovation Initiative, NASA HQ

12:30 pm **Luncheon and Awards with Guest Speaker** – Student Services Building

- AAS John F. Kennedy Astronautics Award presentation to George Salazar
- AAS Patty Grace Smith Award presentation to Casey Waggy
- Guest Speaker: Melanie Saunders, Deputy Associate Administrator, NASA HQ

Sponsored by Northrop Grumman Corporation

- Announcement of Student Poster Contest Winners

Student Poster Contest sponsored by Aerojet Rocketdyne

Thank you to the 2019 Planning Committee

Chair: Chris Crumbly – University of Tennessee Space Institute

Terry Abel – Lockheed Martin Corporation
Mark Becnel – RadioBro Corp
Carla Bossard – Aerojet Rocketdyne
Wes Brown – NASA MSFC
Gregg Burgess – Sierra Nevada Corporation
Bob DaLee – The Boeing Company
Patrick Dees – AIAA
Alan DeLuna – AAS
Kim Doering – Dynetics
Martin Frederick – Northrop Grumman Corporation
Lira Frye – United States Army
Mike Fuller – Northrop Grumman Corporation
Mike Gold – MAXAR
Gene Goldman – BWX Technologies
Becky Griffin – Rebecca Griffin Space
Sam Gunderson – Blue Origin
Jeff Irons – ironSclad Solutions, Inc.
Diana King – NASA MSFC
Tom Koshut – UAH
Tracy Lamm – Manufacturing Technical Solutions
Andy Johnston – Jacobs
Pat Maloney– The Aerospace Corporation
Todd May - KBR
Chrystal Morgan – United Launch Alliance
Bruce Morris – RUAG
Kathy Nado – NASA HQ
Mary Occhipinti – Moog
Pete Paceley - Draper
Patrick Rouin - AAS
Charles Scales – Sierra Lobo
Dan Schumacher – Torch Technologies
Mike Ward – Chamber of Commerce of Huntsville and Madison County
Jim Way – AAS
Al Wilhite - UAH
Lisa Wood – Ball Aerospace
Pamela Workings – The Boeing Company

Thank you for attending the Wernher von Braun Memorial Symposium!

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American Astronautical Society

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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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