

THE 13TH ANNUAL

WERNHER VON BRAUN MEMORIAL SYMPOSIUM

SPACE EXPLORATION: TURNING VISIONS INTO REALITY



October 26-28, 2020

Online

An American Astronautical Society Symposium
in conjunction with the
Marshall Space Flight Center

SPACENEWS

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11:00 am **Welcome Remarks**

- **Carol Lane**, President, American Astronautical Society
- **Dr. Darren Dawson**, President, The University of Alabama in Huntsville
- **Jody Singer**, Director, NASA Marshall Space Flight Center

11:20 am **VBExtra**

- **Kara Cunzeman**, Lead Futurist for Strategic Foresight for the Center for Space Policy and Strategy, Aerospace Corporation

11:45 am **Artemis: How This Twin Will Go Further**

- **Erika Alvarez**, Acting Systems Engineering and Integration Director, Advanced Exploration Systems, NASA HQ (Moderator)
- **Caite Beck**, Principal Structural Design Engineer, Northrop Grumman Space Systems
- **Juan (Tony) Castilleja Jr.**, Systems Engineer, Global Sales & Marketing, Boeing Space and Launch
- **Jonathan Pahed**, Senior Engineer RS-25, Aerojet Rocketdyne
- **Mary Popp**, Technical Assistant to the Commercial Civil Space VP/GM; formerly a Senior Propulsion Engineer on Orion, Lockheed Martin Space
- **Eric Weaver**, Senior Manager, Engineering Analysis, Jacobs Space Operations Group

12:45 pm **Luncheon Break**

1:10 pm **Award Presentation: Space Technology Award**

- Jeff Haynes and the AR-22 Team

1:15 pm **Human Landing System**

- **Lisa Watson-Morgan**, Program Manager, Human Landing System, NASA MSFC (Moderator)
- **John Couluris**, Program Manager, Human Landing System, Blue Origin
- **Nick Cummings**, Director, Civil Space Advanced Development, SpaceX
- **Robert Wright**, Program Manager, Space Systems, Dynetics

2:20 pm **VBExtra: International Commercial Space**

- **Chris Stott**, Chairman and Chief Executive Officer, ManSat

2:40 pm

Artemis: Sustainable Lunar Exploration

- **Doug Craig**, Strategic Analysis and Planning Manager, HEOMD, NASA HQ (Moderator)
- **Christina Koch**, Astronaut, NASA
- **Ginger Flores**, Manager, Habitation Systems Development Office, NASA MSFC
- **Mike Gernhardt**, Human Surface Mobility Element Lead for HEO and SEI, NASA JSC, Former NASA Astronaut
- **Clive Neal**, Professor, University of Notre Dame
- **Michelle Rucker**, Human Mars Architecture Lead, NASA JSC

3:40 pm

Award Presentation: Carl Sagan Memorial Award

- Michael W. Werner, *sponsored by SAIC*

3:45 pm

VBExtra: Science and Human Exploration Discussion

- **Renee Weber**, Planetary Scientist, NASA MSFC
- **Thomas Zurbuchen**, Associate Administrator, SMD, NASA HQ

11:00 am **Award Presentation: Space Life Sciences Award**

- Mark Ott

11:05 am **International Collaboration for Moon 2024**

- **Mike Gold**, Acting Associate Administrator, Office of International and Interagency Relations, NASA HQ (Moderator)
- **Sylvie Espinasse**, Head of the ESA Washington Office, ESA
- **Masami Onada**, Director, Washington D.C. Office, JAXA
- **Jill Smyth**, Counselor, Space Affairs, CSA

12:10 pm **Keynote Speaker**

- Introduction: **Frank DeMauro**, Vice President and General Manager of Tactical Space Systems, Northrop Grumman Space Systems
- **Kathryn Lueders**, Associate Administrator, HEOMD, NASA HQ,

12:40 pm **Luncheon Break**

1:10 pm **Award Presentation: Neil Armstrong Space Flight Achievement Award**

- Joseph M. Acaba and Richard Arnold II

1:15 pm **Enabling Technologies for the Moon to Mars Space Exploration**

- **James Reuter**, Associate Administrator, STMD, NASA HQ (Moderator)
- **Jason Ballard**, CEO & Co-Founder, ICON
- **Michael Kynard**, Manager, Space Nuclear Propulsion, NASA MSFC
- **Mike Seablom**, Chief Technologist, SMD, NASA HQ
- **Niki Werkheiser**, Program Executive, Game Changing Development Program, STMD, NASA HQ

2:20 pm **AAS Fellows Presentations**

- Chris D'Souza, J.R. Edwards, and Bill Gerstenmaier

2:30 pm **Achieving Escape Velocity from Red Tape: Regulatory and Policy Reform**

- **Andrew Rush**, Chair, NASA Advisory Council Regulatory and Policy Committee (Moderator)
- **Mary Lynne Dittmar**, President/CEO, Coalition for Deep Space Exploration; Users' Advisory Group, National Space Council
- **Kevin O'Connell**, Director, Office of Space Commerce, Department of Commerce
- **Wayne Monteith**, Associate Administrator, Commercial Space Transportation, FAA
- **Eric Stallmer**, President, Commercial Spaceflight Federation

Wednesday, October 28

* All times CDT

11:00 am **VBExtra**

- **Carissa Christensen**, CEO & Founder, Bryce Space and Technology
- **Alex MacDonald**, Chief Economist, Office of the Administrator, NASA HQ

11:50 am **Award Presentation: Sally Ride Education Award**

- David Seidel

11:55 am **Poster Contest Winners**

- Introduction: **Jim Maser**, Senior Vice President, Space, Aerojet Rocketdyne

12:00 pm **Workforce**

- **Shankar Mahalingam**, Dean, College of Engineering, Distinguished Professor, Mechanical and Aerospace Engineering, UAH
- **Chrystal Morgan**, Director, State and Local Affairs, ULA
- **Bobby Watkins**, Manager, Human Exploration Development and Operations Office, NASA MSFC

12:40 pm **Luncheon Break**

1:00 pm **Keynote Speaker**

- Introduction: **Lisa Callahan**, VP and General Manager, Commercial Civil Space, Lockheed Martin Corporation
- **Jim Bridenstine**, Administrator, NASA HQ

1:30 pm **Award Presentation: Ordway Award**

- Bill Ingalls, Roger D. Launius, The University of Nebraska Press, and The Viking Mars Missions Education and Preservation Project (VMMEPP)

1:45 pm **Space Policy Dialogue**

- **Dan Dumbacher**, Executive Director, AIAA (Moderator)
- **Jeff Foust**, Senior Staff Writer, SpaceNews
- **John Logsdon**, Professor Emeritus, George Washington University
- **Marcia Smith**, Founder and Editor, SpacePolicyOnline.com

- 2:35 pm **Comments: Planning Committee Chairs** * All times CDT
- **Tracy Lamm**, Lockheed Martin Corporation
 - **Johnny Stephenson**, NASA MSFC
- 2:45 pm **Future Space Outlook Conversation**
- **Mike Griffin**, Co-President, LogiQ, Inc
 - **Scott Pace**, Executive Secretary, National Space Council
- 3:45 pm **Closing Remarks**
- **Carol Lane**, President, American Astronautical Society

Thank you to the 2020 Planning Committee

Committee Co-Chairs:

Johnny Stephenson – NASA Marshall Space Flight Center

Tracy Lamm – Lockheed Martin Corporation

Terry Abel – Lockheed Martin Corporation	Darin Lindon – KBR
Mark Becnel – RadioBro Corp	Nicholas Loyd – UAH
Carla Bossard – Aerojet Rocketdyne	Pat Maloney – The Aerospace Corporation
Wes Brown – NASA MSFC	Todd May – KBR
Tony Castilleja – The Boeing Company	Lisa Mitchell – Jacobs Space Exploration Group
Jacki Cortese – Blue Origin	Chrystal Morgan – United Launch Alliance
Chris Crumbly – UTSI	Bruce Morris – RUAG
Alan DeLuna – AAS	Kathy Nado – NASA HQ
Kim Doering – Dynetics	Mary Occhipinti – Moog
Martin Frederick – Northrop Grumman	Pete Paceley – Draper
Mike Fuller – Northrop Grumman	Sarah Robertson – AAS
Michael Gold – NASA HQ	Patrick Rouin – AAS
Gene Goldman – BWX Technologies	Charles Scales – Sierra Lobo
Becky Griffin – Rebecca Griffin Space	Dan Schumacher – Torch Technologies
Sam Gunderson – NASA JSC	Mike Ward – Chamber of Commerce of Huntsville and Madison County
Jeff Irons – ironScIad Solutions, Inc.	Jim Way – AAS
Andy Johnston – Jacobs Space Exploration Group	Lisa Wood – Ball Aerospace
Diana King – NASA MSFC	Pamela Workings – The Boeing Company
Tom Koshut – UAH	

Thank you for attending the Wernher von Braun Memorial Symposium!

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March 16-18, 2021 | Silver Spring, Maryland | astronautical.org/goddard



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