7th Wernher von Braun Memorial Symposium

Moving Forward in Exploration

October 27-30, 2014

Chan Auditorium
Business Administration Building
The University of Alabama in Huntsville

An AAS Symposium organized
in conjunction with
The University of Alabama in Huntsville
NASA Marshall Space Flight Center
Huntsville National Space Club

Presenting Sponsor – *ATK*

Media Sponsor – *SpaceNews*

Education Sponsor – *Aerojet Rocketdyne*

Monday, October 27

6:00 pm **Welcome Reception**
University Center, Exhibit Hall – sponsored by The University of Alabama in Huntsville

Tuesday, October 28

7:00 am **Registration Opens / Networking / Continental Breakfast**
Business Administration Building, Lobby – sponsored by Orbital Sciences Corporation

8:00 am **Welcome to Campus** – *Chan Auditorium*
Dr. Robert Altenkirch, President, The University of Alabama in Huntsville

Remarks by AAS Executive Vice President
Walt Faulconer, President, Strategic Space Solutions, LLC

8:15 am **Introduction by Presenting Sponsor**
Charlie Precourt, Vice President and General Manager, Space Launch Division, Aerospace Group, ATK

8:20 am **Marshall Space Flight Center Update**
Patrick Scheuermann, Director, NASA Marshall Space Flight Center

8:30 am **Space Exploration - Perspectives with the Millennial Generation**
Moderator: Donald James, Associate Administrator for Education, NASA Headquarters
Panelists:

- Darius Yaghoubi, Aerospace Engineer, NASA MSFC
- Stephanie Bednarek Orton, Government Affairs Manager, SpaceX
- Gabe Xu, Assistant Professor, Mechanical and Aerospace Engineering, UAH
- Myron Fletcher, Rocket Propulsion Engineer, Boeing
- Zack Krevor, Chief Systems Engineer, Dream Chaser Program, Sierra Nevada Corporation
- Shannon Coggin, Production Integration Specialist, Atlas and Delta Program, ULA
- Mark Becnel, President, RadioBro Corporation

10:15 am **Break** *- sponsored by Orbital Sciences Corporation*

10:30 am **ISS Utilization and Exploration**
Moderator: Mike Read, Manager, ISS National Lab Office, NASA JSC
Panelists:

- Greg Johnson, President and Executive Director, Center for the Advancement of Science in Space (CASIS)
- John Shannon, Program Manager, ISS, Boeing
- Lybrease Woodard, Associate Director, Mission Operations Laboratory, NASA MSFC
- Kim Doering, Manager, Space Systems Division, Dynetics

12:15 pm **Luncheon** *University Center, Exhibit Hall – sponsored by Boeing*
Guest Speaker: Charles F. Bolden, Jr., NASA Administrator

1:45 pm **SLS and Orion Capability Progress Report**
Moderator: Dan Dumbacher, Professor of Engineering Practice, School of Aeronautics and Aerospace Engineering, Purdue University

Panelists:

- Bill Hill, Assistant Deputy Associate Administrator, Exploration Systems Development, NASA Headquarters
- Todd May, SLS Program Manager, NASA MSFC
- Nick Cummings, Exploration Integration Manager, Ground Systems Development and Operations Program, NASA KSC
- Mark Geyer, Orion Program Manager, NASA JSC

3:15 pm **Break** – *sponsored by Orbital Sciences Corporation*

3:30 pm **Washington, D.C. - Perspectives on Exploration**
Cristina Chaplain, Director, U.S. Government Accountability Office (GAO)

4:00 pm **Space Exploration: Perspectives from Senior Industry Leaders**
Moderator: Teresa Vanhooser, Deputy Director, NASA MSFC
Panelists:

- Charlie Precourt, Vice President and General Manager, Space Launch Division, Aerospace Group, ATK
- Julie Van Kleeck, Vice President, Space Advanced Programs, Aerojet Rocketdyne
- John Elbon, Vice President and General Manager Space Exploration, Boeing Defense, Space & Security
- Mike Hawes, Vice President and Orion Program Manager, Lockheed Martin Space Systems Company

6:00 pm **Reception and Student Poster Displays**
Burritt on the Mountain – Baron Bluff Building – sponsored by United Launch Alliance
Special Guest: Tory Bruno, CEO and President, United Launch Alliance

Wednesday, October 29

7:00 am **Registration Opens / Networking / Continental Breakfast**
Business Administration Building, Lobby – sponsored by Dynetics

8:00 am **Washington, D.C. - Perspectives on Exploration**
Dick Obermann, House Committee on Science, Space, and Technology

8:30 am **Future Exploration Mission Planning**
Moderator: Chris Crumbly, Manager, Spacecraft/Payload Integration and Evolution Office, SLS Program, NASA MSFC
Panelists:

- Marshall Smith, Deputy Director, Cross-Program Systems Integration, Exploration Systems Development, NASA Headquarters
- Mike Hawes, Vice President and Orion Program Manager, Lockheed Martin Space Systems Company
- Virginia Barnes, Vice President and Program Manager, Space Launch System, Exploration Launch Systems, Boeing
- Steve Stich, Deputy Director, Engineering, NASA JSC
- Bret Drake, Lead, Mission Planning and Analysis, Exploration Missions and Systems Office, NASA JSC
- Fred Brasfield, Manager, SLS Booster Program, ATK

10:00 am **Break** – *sponsored by Dynetics*

10:15 am **Advanced Propulsion Technologies**
Moderator: Mike Griffin, Chairman and CEO, Schafer Corporation
Panelists:

- Dale Thomas, Associate Director, Technical, NASA MSFC
- Stan Borowski, Nuclear Thermal Propulsion, NASA GRC
- Dave Manzella, Solar Electrical Propulsion, NASA GRC
- Franklin Chang-Diaz, Chairman and CEO, Ad Astra Rocket Company
- Mark Lewis, Scram Jet Hypersonic Propulsion, Institute for Defense Analysis

12:00 pm **Washington, D.C. - Perspectives on Exploration**
Kate Kronmiller, Senior Vice President, Government Relations, Orbital Sciences Corporation

12:30 pm **Luncheon** *University Center, Exhibit Hall – sponsored by Lockheed Martin*
Guest Speaker: William Gerstenmaier, Associate Administrator, Human Exploration and Operations Mission Directorate, NASA Headquarters

Announcement of Student Poster Awards

2:30 pm **Adjourn**

WERNHER VON BRAUN MEMORIAL DINNER

– Davidson Center at the U.S. Space & Rocket Center

5:00 pm **Reception**

7:00 pm **Dinner**
Special Guest Speaker: Jean-Jacques Dordain, Director General, European Space Agency

Note: The dinner is a separate event and is not included as part of the symposium registration. Information about the dinner is available at www.spaceclub-hsv.org

Thursday, October 30

8:30 am - 12:00 pm **Tour of the United Launch Alliance Atlas and Delta Rocket Production Facility**

Buses will depart from and return to the UAHuntsville Intermodal Parking Facility (Bldg. 16 on campus map)

1) Only U.S. citizens/persons are permitted on the tour.
2) One of the following documents is required for the tour other than a current U.S. Driver's License:
   A: United States Passport (unexpired or expired); or
   B: Original or certified copy of a Birth Certificate issued by a state, county, municipal authority, or outlying possession of the United States, bearing an official seal.
3) No open toe shoes are permitted on the tour. Flat, closed toe shoes are receommended.
4) Those who RSVP will be required to re-confirm prior to boarding the ULA bus.
5) For further information, please contact Larry Richardson at ULA at larry.richardson2@ulalaunch.com or 303-269-5505.

Note: Presentations will be posted at www.astronautical.org