

46th Robert H. Goddard Memorial Symposium

Exploration to Commercialization: Going to Work in Space

March 4-6, 2008

Greenbelt Marriott Hotel
Greenbelt, Maryland

Final Program

Scroll down for hotel and transportation information

Fifty-one years after the International Geophysical Year initiated the space age with the resulting launch of Sputnik and the creation of NASA the following year, we are in a new era. There are now plans to return humans to the Moon to establish a sustained presence, and concepts for compelling new science missions to advance knowledge of planet Earth, our solar system and the Universe. There is more interest and activity than ever before in privately funded launch vehicles and orbital payloads. Many nations will be involved in future space exploration with greater participation and innovation from private companies. The Chinese have now joined the US and Russia as the third nation to put humans in space. On the eve of NASA's 50th Anniversary, this Symposium brings together leaders in government, industry, academia, and entrepreneurs to consider the history and current state of space exploration and commercialization, and collectively discuss new plans and prospects for the future of humanity in space.

Note: NASA GSFC has prepaid for GSFC civil servants to attend the sessions and receptions at the Goddard Symposium. Registration is not necessary - just bring your GSFC employee badge and sign in. If you would like to attend the luncheons, tickets may be purchased at the symposium.

Tuesday, March 4

6:00 pm Future Leaders Networking Reception (Open to all attendees)
Sponsored by Lockheed Martin

Wednesday, March 5

7:15 Corporate Members Breakfast with Michael Griffin

7:30 Registration Opens / Continental Breakfast

8:30 Welcome
Frank Slazer, AAS President

8:40 Introduction of Keynote Speaker
Edward Weiler, Director, NASA Goddard Space Flight Center

8:45 Keynote – *The Reality of Tomorrow*

Michael Griffin, NASA Administrator

9:30 Keynote Break

Sponsored by N. Hahn Investment Banking

9:45 Perspectives on the 50th Anniversary of NASA's Founding

Roger G. Launius, Senior Curator, National Air & Space Museum,
Smithsonian Institution

10:15 Reflections on Humans Working in Space

William H. Gerstenmaier, Associate Administrator for Space Operations,
NASA Headquarters

10:45 Sustaining a Human Presence in Space

Tom Cremins, Deputy Associate Administrator for Exploration Systems,
Management and Policy, NASA Headquarters

11:15 The International Role in Expanding Human Presence in Space

Lon Rains, Editor, *Space News*

11:45 Luncheon

Guest Speaker: A. Thomas Young, former President and COO,
Martin Marietta Corporation

1:15 A History of the Vision for Space Exploration

Stephen J. Garber, History Division, NASA Headquarters

1:45 Prizes and Emerging Markets: Encouraging Commercial Space Capabilities

Ken Davidian, Commercial Development Policy Lead, NASA Headquarters

2:15 Break

2:30 A Ticket to Ride: An Emerging Space Adventure Industry

Moderator: Clayton Mowry, President, Arianespace, Inc.

Panelists:

- Bretton Alexander, Executive Director, X PRIZE Foundation
- George Whitesides, Executive Director, National Space Society
- George Nield, Deputy Associate Administrator for Commercial Space Transportation, FAA
- Michael Gold, Bigelow Aerospace
- Franceska Schroeder, Principal, Fish & Richardson P.C.

3:45 Spaceports and Commercial Space Launches

Moderator: John Campbell, Director, Wallops Flight Facility and Suborbital and Special Orbital Projects Directorate, NASA GSFC

Panelists:

- David Thompson, CEO, Orbital Sciences Corporation
- Neil Milburn, Vice President, Federal Liaison and Program Manager, Armadillo Aerospace

- Billie Reed, Executive Director, Virginia Commercial Space Flight Authority
- Patrick W. McCarthy, Director of Spaceport Operations, Space Florida

5:00 Reception

Thursday, March 6

7:30 Registration Opens / Continental Breakfast

8:30 Keynote

John H. Marburger, III, Science Advisor to the President and Director, Office of Science and Technology Policy

9:15 Moon Science

David E. Smith, Deputy Director for Planetary Science, Solar System Exploration Division, NASA GSFC

9:45 Investing in Technology to Enable Future Science Missions in Space

Laurie A. Leshin, Deputy Director for Science and Technology, NASA GSFC

10:15 Break

10:30 Faces for the Future

Moderator: Ed Hoffman, Chief, Program and Project Management Policy Division, NASA Headquarters

Panelists:

- Richard Behnke, Director of Atmospheric Sciences (GEO/ATM), National Science Foundation
- David L. Ryan, Vice President and General Manager, Civil Systems, Northrop Grumman Space Technology

11:15 Earth Science from Space

Mary E. Kicza, NOAA Assistant Administrator, National Environmental Satellite Data & Information Service

11:45 Luncheon

Guest Speaker: Conrad C. Lautenbacher, Jr., Undersecretary of Commerce for Oceans and Atmosphere (NOAA Administrator)

1:15 HST Servicing Mission 4 - The Technology Leap in Satellite Servicing

Frank Cepollina, Manager, Hubble Space Telescope Development Project, NASA GSFC

1:45 Space Weather: Survival of People and Robots

Louis Lanzerotti, Distinguished Research Professor, Center for Solar-Terrestrial Research, New Jersey Institute of Technology

2:15 Break

- 2:30 Mars on the Horizon**
James B. Garvin, Chief Scientist, NASA GSFC
- 3:00 Before Earth and Beyond Mars: Planetary Science**
Ralph McNutt, MESSENGER Project Scientist, Applied Physics Laboratory
- 3:30 Astrophysics Beyond 2020: the Big Questions**
Mario Livio, Head, Office of Public Outreach, Space Telescope Science Institute
- 4:00 NASA at 50: Oh, Say Can You See?**
Wesley T. Huntress, Jr., Director, Geophysical Laboratory, Carnegie Institution of Washington
- 4:30 Closing Remarks**
Frank Slazer, AAS President
- 5:00 Reception – Celebrating NASA’s 50th**

----- **Hotel and Transportation Information** -----

Greenbelt Marriott
6400 Ivy Lane
Greenbelt, Maryland
301-441-3700
800-676-5975

<http://marriott.com/property/propertyPage/WASGB>

Hotel Accommodations: All sessions, luncheons and receptions will be held at the Greenbelt Marriott. A limited number of rooms have been reserved for symposium attendees at the prevailing government per diem rate – please mention AAS to get this rate. Other hotels in the Greenbelt/College Park, Maryland area are listed below:

Holiday Inn - Greenbelt, Greenbelt, Maryland 301-982-7000
Courtyard Marriott, Greenbelt, Maryland 301-441-3311
Quality Inn Suites - College Park, College Park, Maryland 301-864-5820
Comfort Inn Suites - College Park, College Park, Maryland 301-441-8110
Holiday Inn - College Park, College Park, Maryland 301-345-6700

TRANSPORTATION

From the Airport: The Greenbelt Marriott is a 25 minute drive from Baltimore Washington International Thurgood Marshall Airport (BWI). You can take a SuperShuttle van to the hotel (\$27.00 one-way). Go to lower level and follow signs to the SuperShuttle ticket desks at Baggage Claim 1 or Baggage Claim 10. The ticket desks are open between the hours of 6:00 AM and 2:00 AM. During other times please call 888-826-2700 to arrange service. You can also take a Metro Express Bus (#B30) from BWI to the Greenbelt Metro Station, and then call for a hotel pick-up. The Express Bus departs BWI weekdays beginning at

6:54 am and ending at 10:44 pm and costs \$3.00. Taxi fare from BWI to the hotel is approximately \$40.00.

From Metro: The hotel is a ten minute walk from the Greenbelt Metro Station (on the Green Line). Once at the Metro Station, you can call the hotel between 7:00 am and 10:00 pm for pick-up by their complimentary shuttle bus.

By Car: From the Washington Beltway (I-495), take Exit 23 (Kenilworth Avenue/Route 201) going north. Go to the second traffic light and turn left onto Ivy Lane. The Greenbelt Marriott is the second building on the left; ample free parking is available.