

## **ISDC 2012 Program Agenda**

Last updated May 21

### **Friday, May 25**

#### **General Sessions**

Independence Ballroom A

- 9:00-9:50 Charlie Bolden, NASA Administrator
- 9:50-10:05 Networking Break, Independence Foyer
- 10:05-10:55 Mark Sirangelo, Chairman, Sierra Nevada Space Systems
- 10:55-11:10 Networking Break, Independence Foyer
- 11:10-12:00 Steve Cook, Dynetics

#### **Lunch**

Constitution Ballroom C, D, E

- 12:10-1:50 Eric Anderson, Co-Chairman and Co-Founder, Planetary Resources

#### **Featured Programming**

Independence Ballroom A

- 2:00-3:00 To Be Announced
- 3:00-4:00 Tom Shelley, President, Space Adventures
- 4:00-5:00 Space Launch System Panel
  - Todd May, NASA Marshall Space Flight Center
  - Garry Lyles, NASA Marshall Space Flight Center
  - Bill Hill, NASA Headquarters, Moderator
- 5:00-6:00 Liberty Transportation System
  - Brian Duffy, ATK
  - John Schumacher, Astrium North America

#### **Space Settlement**

Organized by the American Institute of Aeronautics and Astronautics

Independence Ballroom F, G

2:00-6:00

#### **Space Investment Summit**

Independence Ballroom H, I

- 2:00-2:05 Opening Remarks
  - Introduction of Secretary Connaughton
  - Laurie Wiggins, Moderator
- 2:05-2:20 Sean Connaughton, Secretary of Transportation, Commonwealth of Virginia
- 2:20-3:00 Overview of Commercial Space Sector
  - Bob Werb, Michael Leventhal, Amaresh Kollipara
- 3:00-4:00 Policy Implications for Commercial Space
  - Charles Miller, Session Chair
- 4:00-4:15 Break
- 4:15-5:15 Part 1- Space Entrepreneurship: Beyond the Rocket
  - Bruce Pittman, Session Chair
  - David Gump, President, Astrobotic Technology

Dennis Wingo, President, SkyCorp Inc.  
Rex Ridenoure, President, Ecliptic Enterprises  
Jeff Manber, President, NanoRacks Inc.  
5:15-6:00 Part II – Lessons Learned  
6:00 Session Closing, Laurie Wiggins

### **Government Procurement and Space**

Farragut Square Room

2:00-2:10 Student Presentation  
2:10-3:00 Christine Chaplain, Government Accountability Office  
3:00-3:10 Student Presentation  
3:10-4:40 Panel Discussion  
Dan Walt, Moderator  
4:40-4:50 Student Presentation  
4:50-5:00 Student Presentation

### **ITAR & Satellite Export Control Reform Policy Update**

Organized by the Satellite Industry Association

Lafayette Park Room

2:00-3:30 Panel Discussion  
Ashley Bander, Office of the Deputy Assistant Secretary of Defense for Space Policy  
Carissa Christensen, Founder and Managing Partner, The Tauri Group  
Kevin Schmadel, VP, Government Relations, Universities Space Research Association  
Mike Gold, General Counsel, Bigelow Aerospace  
Patricia Cooper, President, Satellite Industry Association, Moderator  
4:00-6:00 Space Settlement Design Presentations  
A series of presentations on various space settlement designs by top 2012 award winners in the NSS/NASA Ames Space Settlement Contest for middle school and high school students

### **Governors' Dinner and Gala**

The National Air and Space Museum

Sponsored by Sierra Nevada Space Systems and Space Canada

Hugh Downs, Master of Ceremonies

NSS Space Pioneer Awards: Senator John Glenn, Commander Scott Carpenter

Presented by Mark Sirangelo, Chairman, Sierra Nevada Space Systems

7:00-8:00 Reception, America by Air Gallery  
8:00-9:20 Program, Milestones of Flight Gallery  
9:20-10:30 Dinner, Space Gallery

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## **Saturday, May 26**

### **General Sessions**

Independence Ballroom A

9:00-9:50 Doug McCuiston, Director, Mars Exploration Program (invited)  
9:50-10:05 Networking Break, Independence Foyer  
10:05-10:55 International Space Sustainability Panel

Sarah Factor, Office of the Deputy Assistant Secretary of Defense for Space Policy  
Philippe Hazane, CNES Representative & Space Attache, French Embassy  
Ade Abiodun, Former Chairman of UN COPUOS  
Lynn Cline, NASA Deputy Associate Administrator for Human Exploration and  
Operations, Retired  
Chaired by Mike Simpson, Secure World Foundation

10:55-11:10 Networking Break, Independence Foyer  
11:10-12:00 To Be Announced

### **Lunch**

Constitution Ballroom C, D, E

12:10-1:50 Michael Lopez-Alegria, President, Commercial Spaceflight Federation  
Award Presentation to Ben Bova  
Baen Book Award Presentation

### **Featured Programming**

Independence Ballroom A

2:00-3:00 Asteroid Panel, LtCol Pete Garretson, Chair  
3:00-4:00 Panel To Be Announced, LtCol Pete Garretson, Chair  
4:00-5:00 Amaresh Kollipara, Principal, Space Angels Network

### **Commercial Space and Spaceports**

Organized by the Commercial Spaceflight Federation

Independence Ballroom F, G

2:00-6:00

### **Mission Development Forum**

Organized by Xtraordinary Innovative Space Partnerships, Inc.

Independence Ballroom H

2:00-6:00 Turning good ideas into gold - bridging the chasm between technology development experiments and mission enabling advanced development work through commercial investment and applications.  
Gary Barnhard, President & CEO Xtraordinary Innovative Space Partnerships, Inc.  
Bruce Pittman, Director, Flight Projects and Chief System Engineer, NASA Space Portal  
Paul Werbos, Partner, IntControl LLC  
John Garred, Attorney, Tucker Ellis & West, LLP  
James Warren, Attorney, Tucker Ellis & West, LLP  
Dennis Wingo, CEO, Skycorp Inc  
Dr. Ludmilla Werbos, Partner, IntControl LLC

Beyond Earth Orbit Mission Development Issues - Interdisciplinary Forum  
Gary Barnhard, et.al.

Xrosslink Internet Service Protocol (XISP) - Key to Pervasive Inter-operating Networks in Space

Conceptual Design of an enhanced DTN Gateway for ISS

Gary Barnhard, et.al.

Fluid Stream Momentum Transfer for High-efficiency Propulsion of Lunar and Mars-bound Spacecraft

Thomas B. Joslyn, LtCol, USAF, PhD, United States Air Force Academy

Visualizing Wireless Transfer of Power: A Five-Nation Demo by 2020

Don Flournoy, Professor of Telecommunications, Ohio University

Dr. Narayanan Komerath, Professor, Georgia Tech College of Engineering

Keith Scott, Principal Engineer, The MITRE Corporation

Edward Birrane, Senior Professional Staff, Space Department, Johns Hopkins University, Applied Physics Laboratory

Branan Dessanti, Graduate Student, Georgia Tech College of Engineering

### **Space Solar Power**

Independence Ballroom I

2:00-6:00

### **Space Business**

Farragut Square Room

2:00-2:30 Advanced Suborbital Training: Supersonic and "Edge of Space" Flights

Howard Chipman, Aurora Aerospace

2:30-3:00 A Space Solar Power Industry for \$2B or Your Money Back

Al Globus, Senior Research Associate, San Jose State University

3:00-3:30 Utilizing the ISS: From Basic Research to New Industries

Jeanne DiFrancesco, Principal, ProOrbis LLC

3:30-4:00 Commercial Space in Europe Since Spacelab: Focus on Microgravity as a Tool for Research

Juergen K. von der Lippe, Principal, VDLConsult

4:00-4:30 Commercial Activity in LEO: What Are the New Possibilities?

Richard Godwin, Consultant, SpaceX

4:30-5:00 Silicon Valley Space Center: A New Space Business Accelerator

Sean Casey, Co-Founder, Silicon Valley Space Center

5:00-5:30 Case for Innovation & the New Business Model: Why NASA Must Change in Order to Survive

Richard Phillips, President, Phillips & Company

5:30-6:00 Redefining the Paper Trail To LEO: Lessons Learned From 23 Years of Commercial Payloads

John Cassanto, President, BioSpace Experiments, Inc.

### **Mars**

Organized by Explore Mars, Inc.

Lafayette Park Room

2:00-3:00 Dr. Mary Voytek

NASA Lead for Astrobiology and Deputy Program Scientist, Mars Science Laboratory

3:00-4:30 Getting to Mars Efficiently: Mars Mission Architectures

Joe Cassady, Executive Director, Advanced Programs Engineering, Aerojet

Matthew B. Duggan: Manager of ISS Systems Integration, International Space Station

4:30-5:00 Program, Boeing Defense Systems  
To Be Announced  
5:00-6:00 Future Policies for Human Missions to Mars  
Chris Carberry, Executive Director, Explore Mars, Inc.  
Blake Ortner, Explore Mars, Inc.

### **Cocktail Reception**

Independence Foyer  
6:00-7:00

### **Dinner**

Independence A Ballroom  
7:00-10:00 Jeff Greason, CEO & Founder, XCor Aerospace  
Award Presentation to Mars Reconnaissance Orbiter Team  
Dr. Richard Zurek, Project Scientist  
Dr. Philip Varhghese, Project Manager  
Wayne Sidney, Spacecraft Engineer  
Student Space Settlement Design Award Presentations

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## **Sunday, May 27**

### **General Sessions**

Independence Ballroom A  
9:00-9:50 Jim Muncy  
9:50-10:05 Networking Break, Independence Foyer  
10:05-10:55 Alexandra Hall, Google Lunar X Prize  
10:55-11:10 Networking Break, Independence Foyer  
11:10-12:00 NSS Heritage Panel  
Lori Garver, Deputy Administrator, NASA and Former NSS Executive Director  
Ben Bova, NSS Governor  
Fred Ordway, NSS Governor  
Art Dula, NSS Governor  
Paul Damphousse, NSS Executive Director, Moderator

### **Lunch**

Constitution Ballroom C, D, E  
12:10-1:50 Rick Tumlinson, Founder, The Earthlight Institute  
Award Presentation to Art Dula  
Award Presentation to Bob Farquhar

### **Featured Programming**

Independence Ballroom A  
2:00-3:00 Art Dula, Excalibur Almaz  
3:00-4:00 Robert Zubrin, The Mars Society  
4:00-5:00 Tim Pickens, Dynetics  
5:00-6:00 Bob Farquhar, Lagrange Point Missions

### **Student Track**

Organized by Students for the Exploration and Development of Space  
Independence Ballroom F, G  
2:00-6:00

### **Transhumanism and Space Exploration**

Independence Ballroom H  
2:00-6:00

### **Living in Space**

Organized by the Kepler Space Institute  
Independence Ballroom I  
2:00-6:00

### **General Presentations**

Farragut Square Room

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|-----------|--|
| 2:00-2:30 | America 2.0: Enlisting Society In the Cause of Space Colonization<br>John Cserep                                   |
| 2:30-3:00 | To Be Announced  |
| 3:00-3:30 | Declan O'Donnell   |
| 3:30-4:00 | A Comparison of Astronaut Near-Earth Object Missions<br>Al Globus  |
| 4:00-4:30 | Ten-Year Forecast for Launches & Markets for Commercial Reusable Suborbital Vehicles<br>Carissa Christensen        |
| 4:30-5:00 | A Strategic Path to Sustainability and<br>Mission Profiles Relating to On-Orbit Emergency Response<br>Gordon Smith |
| 5:00-5:30 | Economics of Robotic Repairs and Refueling to Commercial Satellite Missions<br>Phillip Kalmanson                   |
| 5:30-6:00 | To Be Announced  |

### **The CisLunar Econosphere**

Organized by The Moon Society  
Lafayette Park Room

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|-----------|---|
| 2:00-2:30 | Introduction to CisLunar Space<br>Ken Murphy  |
| 2:30-3:00 | Mining the Moon for L1: Lowering Risks, Sharing Costs<br>John Cserep  |
| 3:00-4:00 | A New Affordable Paradigm of CisLunar Exploration, Education, & Commerce<br>Dave Dunlop<br>Mining Lunar Polar Ice for Fuel Production<br>Jim Keravala<br>Vermont Technical College Lunar Lander Mission<br>Dr. Carl Brandon |
| 4:00-4:10 | Student Presentation: Aris, A Residence in Space  |
| 4:10-4:40 | CisLunar Economic Development in Communications & Surface Transportation<br>Paul Graham   |
| 4:40-4:50 | Student Presentation: Plenidus  |

- 4:50-5:20 An Integrated Space Transportation & Logistics System Based on Fully Reusable Vehicles and Infrastructure (Nodes): The Next Big Space Access Goal
- 5:20-5:30 Student Presentation: Concordia
- 5:30-6:00 GRAIL Mission Report  
Dr. David Smith

### **NSS Heritage Reception**

Independence Foyer  
6:00-7:00

### **Dinner**

Constitution Ballroom A  
7:00-10:00 Lori Garver, Deputy Administrator, NASA  
Award Presentation to Fred Ordway III  
NSS Awards Presentation

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## **Monday, May 28**

### **Education and Outreach**

Organized in cooperation with Yuri's Night  
Independence Ballroom F, G

9:00-9:05 Kevin Simmons and Ryan Kobrick, Track Chairs

9:05-9:25 Tim Spuck

9:25-9:45 John Moore

9:45-10:00 Student Presentation

10:00-10:20 Sheldon Clark

10:20-10:40 Lance Bush

10:40-10:55 Student Presentation

10:55-11:15 Matt Cannella

11:15-12:00 Social Media Panel: Reaching out beyond STEM  
Carrie Gouldin, Vicki Portway, Amanda Stiles, and Brice Russ

### **General Presentation**

Farragut Square Room

8:00-8:30 Mars Base First: A Program-level Optimization for Human Mars Exploration  
Douglas Gage

8:30-9:00 Colony Evolution: A Path Toward Large-Scale Cities In Space [Part 2]  
John Cserep

9:00-9:30 21st Century Learning - Innovation in Teaching Children about STEM  
Megan Friedman

9:30-10:00 Building a better Global Energy Policy for a Better Global Economy  
Darel Preble

10:00-11:30 Visualizing Wireless Transfer of Power: A Five-Nation Demo by 2020  
Don Flournoy and Student Presenters

11:30-12:00 Space Based Solar Power to Tethered Aerostat System  
Stephen Jon Blank

**Lunch**

Constitution Ballroom C, D, E

12:10-2:00 Paul Damphousse, Executive Director, NSS