

As of 5-24-17

**Friday, May 26**

**Training for the Stars**

7:00 am - 7:45 am

**Hotel Fitness Center**

Total Body Strength Training with Fitness Coach Laura Clancy

**Student Services**

8:00 am - 6:00 pm

**Depot Registration Office**

**Exhibit Hall**

10:00 am - 6:00 pm

**Midway**

**Morning Plenary**

8:45 am - 9:45 am

**Grand Ballroom EF**

Welcome & MC: Christine Nobbe, Conference Chair for ISDC 2017, St. Louis Space Frontier, National Space Society Board of Directors  
 Opening Remarks: Mark Hopkins, Chairman of the Executive Committee, National Space Society Board of Directors  
 Keynote Speaker: Charles Miller, NexGen Space

**Student Plenary**

10:00 am - 10:45 am

**Grand Ballroom EF**

"International Efforts in Future Space Exploration"  
 Keynote Speaker: Prof. Johann-Dietrich Wörner, Director General, European Space Agency  
 MC: Dr. Linda Godwin, Professor, Physics and Astronomy, University of Missouri-Columbia and retired NASA Shuttle Astronaut, Johnson Space Center

**10:00 am - 12:00 noon**

**Morning Tracks**

**Back to the Moon**

10:00 am  
 10:30 am  
 10:45 am  
 11:00 am  
 11:15 am  
 11:30 am

**Grand Ballroom C**

**Global Politics of Lunar Development**

Introduction to Global Politics of Lunar Development. Bruce Pittman (NASA Ames Space Portal)  
 NASA's HEOMD's Lunar Activities. Dr. Ben Bussey (NASA)  
 Current Lunar Missions. Dr. Bradley Jolliff (Washington University in Saint Louis)  
 Commercial-National-International Nexus for Policy. Dr. Andrew Aldrin (Buzz Aldrin Space Institute and Florida Institute Technology)  
 International Lunar Research Park. Bruce Pittman (NASA Ames Space Portal)  
 Panel: Global Politics of Lunar Development. Dr. Clive Neal (University of Notre Dame), Dr. Bradley Jolliff (Washington University in Saint Louis), Charles Miller (NexGen Space), Dr. Ben Bussey (NASA), and Bruce Pittman (NASA Ames Space Portal). Moderator: Dr. Andrew Aldrin (Buzz Aldrin Space Institute and Florida Institute Technology)

**Space Business**

10:00 am  
 10:10 am  
 11:00 am

**Grand Ballroom A**

NASA/NSS Student Space Settlement Contest Presentation  
 NewSpace Business Plan Competition. Joel Vinas (Center for Space Commerce and Finance)  
 NewSpace Business Plan Competition. Joel Vinas (Center for Space Commerce and Finance)

**Space Solar Power**

10:00 am  
 10:45 am  
 11:15 am

**Grand Ballroom B**

**Technical & Economic Challenges of Infrastructure TD3**

Next Steps In Modular Design. Dr. Paul Jaffe (U.S. Naval Research Laboratory)  
 U.N. Sustainability Goals & the Cislunar Marketplace. David Dunlop (Space Development Foundation)  
 Critical Path Technology & Cislunar Project Orchestration. Jim Keravala (Off-World Consortium)

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<p><b>Space Transportation</b></p> <p>10:00 am</p> <p>10:05 am</p> <p>11:00 am</p> <p>11:25 am</p>	<p><b>Grand Ballroom D</b></p> <p>Introduction. Jim Merriman (St. Louis Space Frontier)</p> <p>Fast Space. Lt. Col. Thomas P. Schilling (Air University, USAF), Charles Miller (NextGen Space), and Hoyt Davidson (Near Earth and National Space Society Board of Directors)</p> <p>Vector-R and Vector-H (Small Launch Vehicles). Matt Baker (Vector Space Systems)</p> <p>BOREAS (Balloon Assisted Launch System). Brian Stofiel (Stofiel Aerospace)</p>
<p><b>NextGen</b></p> <p>11:00 am</p> <p>11:15 am</p>	<p><b>Midway Suite III</b></p> <p>NASA/NSS Student Space Settlement Contest Presentation</p> <p>Introducing BocksCAD - Coding for 3D Printing. Dr. David Thornburg (Polar3D)</p>
<p><b>NSS Meeting</b></p> <p>10:00 am - 11:00 am</p>	<p><b>Midway Suite II</b></p> <p>International Committee with David Dunlop</p>
<p><b>Lunch</b></p> <p>12:00 noon - 1:50 pm</p>	<p><b>Grand Ballroom F</b></p> <p>"Living and Working in Space"</p> <p>Keynote Speaker: Dr. Linda Godwin, Professor, Physics and Astronomy, University of Missouri-Columbia and retired NASA Shuttle Astronaut, Johnson Space Center</p> <p>Presenting of Missouri Space Pioneer Award to Dr. Linda M. Godwin</p> <p>Presenting of Jim Baen Memorial Short Story Award</p> <p>MC: Harry Hamlin, Founder, Tri Alpha Energy and National Space Society Board of Governors</p>
<p><b>Student Poster Session</b></p> <p>1:00 pm - 3:00 pm</p>	<p><b>Midway</b></p>
<p><b>Authors' StratoLounge</b></p> <p>2:00 pm - 3:00 pm</p> <p>3:00 pm - 4:00 pm</p> <p>4:00 pm - 5:00 pm</p>	<p><b>Midway</b></p> <p>Peter A. Swan (<i>Space Elevators</i>)</p> <p>Bryce Meyer (<i>You Will Design Space Engines, You Will Design Space Habitats, You Will Design Spaceships, You Will Farm in Space</i>)</p> <p>Rod Pyle (<i>Amazing Stories of the Space Age, Blueprint for a Battlestar, Mars: Making Contact</i>)</p>
<p><b>NSS Meeting</b></p> <p>1:00 pm - 2:00 pm</p>	<p><b>Switchman Room</b></p> <p>Space Business Plan Meeting</p>
<p><b>Student Activity</b></p> <p>2:00 pm - 3:00 pm</p>	<p><b>Midway</b></p> <p>Meet &amp; Greet with Dr. Linda Godwin, Professor, Physics and Astronomy, University of Missouri-Columbia and retired NASA Shuttle Astronaut, Johnson Space Center</p>
<p><b>2:00 pm - 6:00 pm</b></p>	<p><b>Afternoon Tracks</b></p>
<p><b>Back to the Moon</b></p> <p>2:00 pm</p> <p>2:00 pm</p> <p>2:30 pm</p> <p>2:45 pm</p> <p>3:00 pm</p> <p>3:15 pm</p> <p>3:30 pm</p> <p>3:45 pm</p> <p>4:00 pm</p> <p>4:15 pm</p> <p>4:30 pm</p> <p>4:45 pm</p> <p>5:00 pm</p> <p>5:15 pm</p>	<p><b>Grand Ballroom C</b></p> <p><b>Sustainable Lunar Architectures. Dennis Wingo (Skycorp)</b></p> <p>Lunar Settlement Visions Introduction. Madhu Thangavelu (University of Southern California)</p> <p>Moon Village. Prof. Johann-Dietrich Wörner (European Space Agency)</p> <p>The Value of Our Moon. Dr. Clive Neal (University of Notre Dame)</p> <p>Lunar Surface Terrain. Dr. Bradley Jolliff (Washington University in Saint Louis)</p> <p>Lunar Habitat Concept. Dr. Douglas Plata (Lunar COTS)</p> <p>PAVING the way to Planetary Basalt ISRU Construction. Rob Kelso (Kelso Aerospace and National Space Society Board of Directors)</p> <p>Pioneering the Moon-Dust to Thrust, Rocks to Blocks. Robert Mueller (NASA Kennedy Space Center)</p> <p>Contour Crafting A Lunar Base. Dr. Behrokh Khoshnevis (University of Southern California)</p> <p>USC SeleneOption 2016. Madhu Thangavelu (University of Southern California)</p> <p>How to Build a Lunar Base. Henk Rogers (Pacific International Space Center for Exploration Systems)</p> <p>Planet Moon. Dr. David G. Schrunk (Science of Laws Institute)</p> <p>International Lunar Decade. David Dunlop (National Space Society International Committee)</p> <p>NASA/NSS Student Space Settlement Contest Presentation</p> <p>Closing Panel: Recommendations</p>

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**Space Business**

- 2:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 2:10 pm The Big Business of Launching Small Satellites. John Quinn (EXOS Aerospace Systems & Technologies) and Matt Baker (Vector Space Systems)
- 3:00 pm NewSpace Business Plan Competition Awards Announcement. Joel Vinas (Center for Space Commerce and Finance)
- 3:20 pm Skycorp presentation. Dennis Wingo (Skycorp)
- 4:00 pm New Ideas in the Business of Space. Andrew Sloan (Cosma Schema), Keegan Kirkpatrick (RedWorks), and Thomas Olson (Avealto)
- 5:00 pm New Ideas in the Business of Space. Dr. Andrew Aldrin (Florida Institute of Technology) and Megan Crawford (Brand Delta-V)

**Grand Ballroom A**

**Space Solar Power**

- 2:00 pm Lunar Power & Light Company. Daniel Faber, Brad Blair and Gary Barnhard (XISP)
- 2:45 pm **Space Solar Power International Student Competition**  
Space Solar Power International Student Competition Introduction. John C. Mankins (Mankins Space Systems)
- 3:00 pm Space Solar Power International Student Competition Presentations. The semi-finalist team presentations include students from the following institutions: Dalian University of Technology (China), Delft University of Technology (The Netherlands), Hampton University (USA), Harbin Institute of Technology (China), Hosei University (Japan), Indiana University (USA), Kitawato University (Japan), Princeton University (USA), Indiana University–Purdue University Indianapolis (USA), Shizuoka University (Japan), The Graduate University of Advanced Studies (Japan), Tokai University (Japan), Tokyo University of Science (Japan), University of Colorado, Boulder (USA), and the University of Maryland (Baltimore County and College Park Campuses, USA).
- 5:30 pm Charting the Path Forward, Fostering Cooperation, Collaboration, and Competition. John C. Mankins (Mankins Space Systems)

**Grand Ballroom B**

**Space Transportation**

- 2:00 pm Between Earth and Moon (Cis-Lunar) Explorers. Kyle Doyle (Cornell University Space Systems Design Studio)
- 2:25 pm Between Earth and Moon (Cis-Lunar) Transportation. Dr. Douglas Plata (Lunar COTS)
- 3:00 pm Aquarius (Interplanetary Space Travel). Dr. James Logan (Space Enterprise Institute)
- 3:25 pm Nuclear Fusion: The Next Giant Leap in Space Propulsion. Gerald Black (The Mars Society)
- 4:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 4:15 pm Earth-Mars Transport. Erv Bauman (St. Louis Space Frontier)
- 5:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 5:15 pm Beamed Energy Propulsion. Jonathan Coopersmith (Texas A&M)

**Grand Ballroom D**

**NextGen**

- 2:00 pm How You Can Launch A High Altitude Balloon and Why It Belongs in Your Classroom. Dustin Mayfield-Jones (Arch Reactor)
- 3:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 3:15 pm Telescopes in the Library: Starting a Telescope "Check out" Program in Your Library Don Ficken (St. Louis Astronomical Society)
- 4:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 4:15 pm Unlocking Keys to the Universe: Education's Future. Trish McCarty (StarShine Academy)

**Midway Suite III**

**Student Activity**

- 3:00 pm - 4:00 pm Vocation Rotation - Interactive Student Session

**Pegram**

**Student Activity**

- 5:00 pm - 6:00 pm Student Meet & Greet with Prof. Johann-Dietrich Wörner, Director General, European Space Agency

**Midway**

**Cocktail Reception**

- 6:00 pm - 7:00 pm

**Grand Foyer**

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**Friday, May 26**

**Governors' Dinner**

7:00 pm - 9:00 pm

**Grand Ballroom EF**

"ROI of Exploration"

Keynote Speaker: Prof. Johann-Dietrich Wörner, Director General, European Space Agency

Presenting of NSS Wernher von Braun Memorial Award to Prof. Johann-Dietrich Wörner

Presenting of NSS Chris Pancratz Activist of the Year Award

Presenting of NSS Excellence Awards

MC: Buckner Hightower, Heinlein Prize Trust

Governors' Dinner Sponsored by the Heinlein Prize Trust

**Star Party**

8:00 pm - 10:00 pm

(location tbd)

Telescope Viewing. Hosted by St. Louis Astronomical Society.

**Video Screenings**

9:30 pm - 11:00 pm

**Grand Ballroom D**

ZGAC/STEAM Film Festival

Zero Gravity Arts Consortium STEAM screening features video shorts created by students studying with Frank Pietronigro at the Academy of Art University in San Francisco who created an exciting array of films using the ISDC 2017 conference theme, "in the spirit of exploration and discovery," as a springboard.

**NSS Meeting**

9:30 pm - Till

**Midway Suite II**

ISDC 2018 Planning Committee Meeting

**NSS Meeting**

9:30 pm - Till

tbd