

As of 5-16-17

Saturday, May 27

Training for the Stars
7:00 am - 7:45 am

Hotel Fitness Center
Total Body Strength Training with Fitness Coach Laura Clancy

NSS Meeting
7:30 am - 8:30 am

Midway Suite II
Space Ambassadors

Registration
8:00 am - 7:00 pm

Depot Registration Office

Student Services
8:00 am - 6:00 pm

Depot Registration Office

Exhibit Hall
10:00 am - 6:00 pm

Midway

Morning Plenary
9:00 am - 9:45 am

Grand Ballroom EF
Panel Presentation: Space Pioneers Forum with MAC's Old Team (Jerry Roberts, Norm Beckel, Dean Purdy, Bob Schepp and Earl Robb) and Gen. Thomas P. Stafford, Gemini & Apollo Astronaut. Moderator: Amy Shira Teitel, Vintage Space and Spaceflight Historian

Second Plenary
10:00 am - 10:45 am

Grand Ballroom EF
Panel Presentation, Part II: Space Pioneers Forum with MAC's Old Team (Jerry Roberts, Norm Beckel, Dean Purdy, Bob Schepp and Earl Robb) and Gen. Thomas P. Stafford, Gemini & Apollo Astronaut. Moderator: Amy Shira Teitel, Vintage Space and Spaceflight Historian

10:00 am - 12:00 noon

Morning Tracks

Space Business
10:00 am
11:00 am
11:15 am

Grand Ballroom A
Assembling the In-Space Economy. Michael Snyder (Made In Space)
NASA/NSS Student Space Settlement Contest Presentation
The Cosmic Hologram: In-formation at the Center of Creation. Jude Currivan (Author)

LaunchPad Talks

Grand Ballroom D

10:00 am
10:08 am

10:16 am
10:24 am

Exploration
tbd
From Marshes to Mars: Exploration from Sea to Space. Jamie Guined (SeaSpace Exploration & Research Society)
The New Right Stuff. Loretta Whitesides (Yuri's Night)
Questions

10:28 am

10:36 am

10:44 am
10:52 am

Access to Space
Modern Fabrication Technologies for Construction of Lunar Bases. Dr. Behrokh Khoshnevis (Contour Crafting Corporation)
Fast Space: Leveraging Ultra Low-cost Space Access for 21st Century Challenges. Lt. Col. Thomas P. Schilling (Air University, USAF)
Commercial Asteroid Mining. Brad Blair (NewSpace Analytics)
Questions

10:56 am

11:04 am
11:12 am
11:20 am

New Architectures for Space Exploration
An Energy Infrastructure for the Solar System - the Caltech Multi-Planetary Smart Tile. Howard Bloom (Space Development Steering Committee)
Visionary Space Elevator Architectures. Dr. Peter A. Swan (International Space Elevator)
3D Printing for Space. Michael Snyder (Made In Space)
Questions

11:24 am
11:32 am
11:40 am

11:48 am

Settlement
Mars: Our Future Starts Now. Vera Mulyani (Mars City Design)
Food for Deep Space. Morgan Arena Irons (Deep Space Ecology)
The Seven Essential Criteria for the Perfect Space Settlement Site. Dr. James Logan (Space Enterprise Institute)
Questions

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Space Settlements	Grand Ballroom C
	Space Settlement and the Human Experience
10:00 am	NASA/NSS Student Space Settlement Contest Presentation
10:10 am	Biological Implications of True Space Settlement. John C. Mankins (Mankins Space Technologies)
11:00 am	Globalization of the Solar System. James Plaxco (Chicago Society for Space Studies)
11:25 am	Space Farm. Bryce L. Meyer (Carnegie Mellon University)
Robotic Exploration	Grand Ballroom B
10:00 am	Robotic Exploration of Mars. Dr. Raymond Arvidson (Washington University in Saint Louis)
10:30 am	Robotic Exploration of the Moon. Dr. Bradley Jolliff (Washington University in Saint Louis)
11:00 am	Robotic Exploration of Ocean Worlds: Icy Satellites. Dr. William McKinnon (Washington University in Saint Louis)
11:30 am	Pathways to Human Space Exploration: 2014 National Research Council Report. Dr. Raymond Arvidson (Washington University in Saint Louis)
Many Roads to Space	Midway Suite II
11:00 am	1. Orbiting Tether With a Low Earth Orbit Spaceport. Thomas Tolan (Sacramento L5 Society Board Member)
	2. A Pneumatic Launch System. Gerard Fonte (The PAK Engineers)
	3. tbd
NextGen	Pegram
11:00 am	NASA/NSS Student Space Settlement Contest Presentation
11:15 am	Welcome to Space Elevators. Dr. Peter A. Swan (International Space Elevator Consortium)
Lunch	Grand Ballroom F
12:00 noon - 1:50 pm	"Space: The Real Challenges" Keynote Speaker: Gen. Thomas P. Stafford, Gemini & Apollo Astronaut Presenting of NSS Space Pioneer Award to Gen. Thomas P. Stafford Presenting of NSS Space Pioneer Award to MAC's Old Team, accepting Norman Beckel MC: Philip Newell, St. Louis Space Frontier and Space Exploration Advocate
Star Wars Visits ISDC	Midway
12:00 noon - 2:00 pm	Meet your favorite Star Wars character and take a selfie! Members of the 70th Explorers Garrison; a subdivision of the 501st Legion, the world's definitive Imperial costuming organization will be roaming the Midway talking to attendees. The 70th Explorers Garrison consists of costumed members from Kansas and Missouri with a mission to help communities through fund raising and promotional events.
Student Poster Session	Midway
1:00 pm - 3:00 pm	
Authors' StratoLounge	Midway
1:00 pm - 2:00 pm	Gary Walston (<i>Diaspora: Prelude</i>)
2:00 pm - 3:00 pm	Loretta Hall (<i>Out of this World: New Mexico's Contributions to Space Travel, Space Pioneers: In Their Own Words, The Complete Space Buff's Bucket List, Miguel & Michelle Visit Spaceport America</i>)
3:00 pm - 4:00 pm	Jude Currihan (<i>The Cosmic Hologram: In-formation at the Center of Creation</i>)
4:00 pm - 5:00 pm	David Schrunck (<i>The End of Chaos: Quality Laws and the Ascendancy of Democracy</i>) and Madhu Thangavelu (<i>The Moon: Resources, Future Development, and Settlement</i>)

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Saturday, May 27

2:00 pm - 6:00 pm

Afternoon Tracks

ISS Utilization

- 2:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 2:10 pm The International Space Station U.S. National Laboratory – Enabling a New Era in Space-Based Utilization. Patrick O’Neill (CASIS)
- 3:00 pm Panel: Exciting the Next Generation of Scientists and Engineers Through the International Space Station. Austin Jordan (CASIS), Michelle Lucas (Higher Orbits), and Samantha McBride (Massachusetts Institute of Technology). Moderated by Patrick O’Neill (CASIS)
- 4:00 pm Panel: Commercial Operations on the International Space Station. Dr. Carl Carruthers (NanoRacks), Michael Snyder (Made In Space) and Heath Mills (Space Technology and Advanced Research Systems). Moderator: Robbie Hampton (CASIS)

Grand Ballroom B

Space Elevators

- 2:00 pm Space Elevator 101, Status & Architectures. Dr. Peter A. Swan (International Space Elevator Consortium)
- 2:20 pm Galactic Harbour, a Strategic Vision Emerges. Michael Fitzgerald (International Space Elevator Consortium)
- 2:30 pm Approach Towards Governments to Support this Major Systems of Systems Development. Bryan Long (Naval Postgraduate School)
- 2:45 pm Q&A
- 3:00 pm Space Elevator Research and ISEC Studies. Dr. Dennis Wright (Stanford Linear Accelerator)
- 3:45 pm Q&A
- 4:00 pm Status of Space Elevator Tether Material Research. Mark Haase (University of Cincinnati)
- 4:45 pm Q&A
- 5:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 5:10 pm Leveraging the Lunar Space Elevator for L-1 Development. Michael Laine (LiftPort Group)
- 5:45 pm Q&A

Grand Ballroom D

Space Enterprises

- 2:00 pm Introduction. Jay Wittner (Space Finance Group)
- 2:05 pm Rewards Crowdfunding. Steven Jorgenson (Space Finance Group)
- 2:20 pm Equity Crowdfunding. Jay Wittner (Space Finance Group)
- 2:35 pm Technology Requirements. Gary Bickford (Space Finance Group)
- 2:50 pm Space Angels and/or Space Funds. Steven Jorgenson (Space Finance Group)
- 3:05 pm Business Plans. Gary Bickford (Space Finance Group)
- 3:20 pm Foundation Funding. Michael Mealling (Waypaver Foundation)
- 3:35 pm Conclusion. Jay Wittner (Space Finance Group)
- 3:40 pm Q&A

Grand Ballroom A

Funding Your Space Business

Integrated Space Plan (ISP) for 2017

- 4:00 pm Introduction. Jay Wittner (Integrated Space Analytics)
- 4:05 pm ISP History & Background. Ron Jones (Integrated Space Analytics)
- 4:20 pm Commercial & Financial Aspects. Steven Jorgenson (Integrated Space Analytics)
- 4:35 pm Current Online Aspects of ISP. Gary Bickford (Integrated Space Analytics)
- 4:50 pm Planning, Politics, & Pork Avoidance. Jay Wittner (Integrated Space Analytics)
- 5:05 pm New ISP Layout. Ron Jones (Integrated Space Analytics)
- 5:20 pm Future Online ISP Plans. Gary Bickford (Integrated Space Analytics)
- 5:30 pm Using ISP As an Outreach Tool & Kids ISP. Steven Jorgenson (Integrated Space Analytics)
- 5:40 pm Conclusion. Jay Wittner (Integrated Space Analytics)
- 5:45 pm Q&A

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Space Settlements

Grand Ballroom C

Making Space Settlement Happen

- 2:00 pm The Tethered Ring. Philip Swan (The Atlantis Project)
- 3:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 3:10 pm Getting Started: Equatorial Low Earth Orbit (ELEO) Settlement. Al Globus (San Jose State University)
- 4:00 pm SkyWheel Colony Demonstrator. John Cserep (SkyWheel)
- 5:00 pm A Survey of Space Settlement Designs. Thomas Marotta (This Orbital Life)
- 5:25 pm Space Infrastructure Required to Enable Space Settlement. Anita Gale (AIAA Space Colonization Technical Committee) and Ron Kohl (AIAA Space Colonization Technical Committee)

Many Roads to Space

Midway Suite II

- 2:00 pm
 1. Extremophiles and Human Space Exploration. Dr. Ivan Paulino-Lima (Universities Space Research Association)
 2. Earth Fungi, Off Earth. Jaime Yarbrough (National Space Society Genesis Chapter, San Francisco)
 3. Living on the Moon can be a Dream Come True. Harshit Sharma (Jaipur Rajasthan, India)
- 3:00 pm
 1. Developing Sustainable Biomes for Space Settlement. Donald Jacques (Phoenix Chapter of the Moon Society)
 2. Linoleic Acid-Enriched Plant Oils for Relief of Skin Discomfort in Microgravity. Amanda Hernandez (University of North Dakota)
 3. tbd
- 4:00 pm
 1. Making Sense of Data from Space: The Citizen Science Approach. Vikas Nath and Artash Nath (HotPopRobot)
 2. Selling Space in Your Community. Jim Plaxco (Chicago Society for Space Studies)
 3. tbd
- 5:00 pm
 1. A Space "Pony Express" Station: Afterlife of the International Space Station. Wun C. Chiou, Sr. (Nakasama Space Industries)
 2. Satellite Bomb Detector. Velisela Neha (Sapienza University, Italy)
 3. tbd

NextGen

Midway Suite III

- 2:00 pm Enterprise in Space: Overview Presentation. Todd Kapp (Enterprise In Space)
- 2:25 pm Using the Enterprise in Space (EIS) Academy. Bonnie Thurber (Enterprise In Space)
- 3:00 pm NASA/NSS Student Space Settlement Contest Presentation
- 3:15 pm Quick prototyping: Micronization Comes to Commercial Space Flight. Brian Stofiel (Stofiel Aerospace)
- 4:00 pm Micro:bit Experiments for Designing Space Missions. Dr. David Thornburg (Polar3D)
- 5:15 pm The First Kid in Space Mike Mongo (*The Astronaut Instruction Manual*)

Student Activity

3:00 pm - 4:00 pm

Pegram

Vocation Rotation - Interactive Student Session

Cocktail Reception

6:00 pm - 7:00 pm

Grand Foyer

Reception hosted by Moon Express

Dinner

7:00 pm - 9:00 pm

Grand Ballroom EF

"NASA and the Ingenuity of a National Space Exploration Program"
 Keynote Speaker: William H. Gerstenmaier, Associate Administrator for the Human Exploration and Operations Directorate, NASA
 Presenting of the NSS Space Pioneer Award to William H. Gerstenmaier
 NSS Chapter Awards
 MC: Karlton Johnson Director, Information Risk Management, Arconic, Colonel, USAF (retired) and National Space Society Board of Governors

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Saturday, May 27

Author & Artist Panel

8:00 pm - 9:30 pm

Grand Ballroom B

Panel: Frontiers of Imagination: The Intersection of Space Science Fiction and Fact. Loretta Hall (author) and Rod L. Pyle (author). Moderator: Bryce L. Meyer

Star Party

8:00 pm - 10:00 pm

(location tbd)

Telescope Viewing. Hosted by St. Louis Astronomical Society.

Movie Screening

9:30 pm - 11:00 pm

Grand Ballroom D

Space Next - movie

The film's director, Luke Ployhar, will introduce the screening and he will follow with a discussion about how the film was made.

NSS Meeting

10:00 pm - Till

tbd