As of 5-24-17

Saturday, May 27

**Training for the Stars**
Hotel Fitness Center
7:00 am - 7:45 am
Total Body Strength Training with Fitness Coach Laura Clancy

**NSS Meeting**
Midway Suite II
7:30 am - 8:30 am
Space Ambassadors

**Registration**
Depot Registration Office
8:00 am - 7:00 pm

**Student Services**
Depot Registration Office
8:00 am - 6:00 pm

**Exhibit Hall**
Midway
10:00 am - 6:00 pm

**Morning Plenary**
Grand Ballroom EF
9:00 am - 9:45 am
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**
Grand Ballroom EF
10:00 am - 10:45 am
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**
Grand Ballroom A
10:00 am
Assembling the In-Space Economy. Michael Snyder (Made In Space)
11:00 am
NASA/NSS Student Space Settlement Contest Presentation
11:15 am
The Cosmic Hologram: In-formation at the Center of Creation. Jude Currivan (Author)

**LaunchPad Talks**
Grand Ballroom D

**Exploration**
10:00 am
tbd
10:08 am
From Marshes to Mars: Exploration from Sea to Space. Jamie Guiney (SeaSpace Exploration & Research Society)
10:16 am
The New Right Stuff. Loretta Whitesides (Yuri's Night)
10:24 am
Questions

**Access to Space**
10:28 am
Modern Fabrication Technologies for Construction of Lunar Bases. Dr. Behrokh Khoshnevis (Contour Crafting Corporation)
10:36 am
10:44 am
Commercial Asteroid Mining. Brad Blair (NewSpace Analytics)
10:52 am
Questions

**New Architectures for Space Exploration**
10:56 am
An Energy Infrastructure for the Solar System - the Caltech Multi-Planetary Smart Tile. Howard Bloom (Space Development Steering Committee)
11:04 am
Visionary Space Elevator Architectures. Dr. Peter A. Swan (International Space Elevator Consortium)
11:12 am
3D Printing for Space. Michael Snyder (Made In Space)
11:20 am
Questions

**Settlement**
11:24 am
Mars: Our Future Starts Now. Vera Mulyani (Mars City Design)
11:32 am
Food for Deep Space. Morgan Arena Irons (Deep Space Ecology)
11:40 am
The Seven Essential Criteria for the Perfect Space Settlement Site. Dr. James Logan (Space Enterprise Institute)
11:48 am
Questions
Saturday, May 27

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

11:25 am
Space Farm. Bryce L. Meyer (Space Colonization TC)

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

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)

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 (Diaspora: Prelude)

2:00 pm - 3:00 pm
Loretta Hall (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)

3:00 pm - 4:00 pm
Jude Currivan (The Cosmic Hologram: In-formation at the Center of Creation)

4:00 pm - 5:00 pm
David Schrunk (The End of Chaos: Quality Laws and the Ascendancy of Democracy) and Madhu Thangavelu (The Moon: Resources, Future Development, and Settlement)
As of 5-24-17

Saturday, May 27

2:00 pm - 6:00 pm  Afternoon Tracks

ISS Utilization  Grand Ballroom B
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)

Space Elevators  Grand Ballroom D
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

Space Enterprises  Grand Ballroom A
Funding Your Space Business
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

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
ISDC 2017 Schedule

Saturday, May 27

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)
4:00 pm  1. Making Sense of Data from Space: The Citizen Science Approach. Vikas Nath and Artash Nath (HotPopRobot)
5:00 pm  1. A Space “Pony Express” Station: Afterlife of the International Space Station. Wun C. Chiou, Sr. (Nakasama Space Industries)
2. Removing Health Barriers to Space. William W. Gardiner (National Space Society Space Settlers’ Health Development Committee)
3. Satellite Bomb Detector. Velisel.Neha (Sapienza University, Italy)

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)

NSS Meeting  Midway Suite IV
2:00 pm - 4:00 pm  NSS website tutorial with Dale Skran

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

Cocktail Reception  Grand Foyer
6:00 pm - 7:00 pm  Reception hosted by Moon Express

Dinner  Grand Ballroom EF
7:00 pm - 9:00 pm  “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
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)

**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)