

As of 5-24-17

Sunday, May 28

Training for the Stars

7:00 am - 7:45 am

Hotel Fitness Center

Total Body Strength Training with Fitness Coach Laura Clancy

Registration

8:00 am - 7:00 pm

Depot Registration Office

Student Services

8:00 am - 6:00 pm and
9:00 pm - Midnight

Depot Registration Office

Exhibit Hall

10:00 am - 6:00 pm

Midway

Morning Plenary

9:00 am - 9:45 am

Grand Ballroom FE

"Exploring the Space Frontier in a Revolutionary Vehicle with a Storied History"

Keynote Speaker: Jane Poynter, CEO, World View Enterprises

MC: Christine Nobbe, Conference Chair for ISDC 2017, St. Louis Space Frontier, National Space Society Board of Directors

Student Plenary

10:00 am - 10:45 am

Grand Ballroom EF

Keynote Speakers: "The Spacey Importance of Effective Communication," Janet Ivey, President & Chief Creative Officer, *Janet's Planet* and National Space Society Board of Governors and "Students for the Exploration and Development of Space: Overview and Projects," Mike Mongo, *The Astronaut Instruction Manual*

Student Poster Session

10:00 am - 12:00 noon

Midway

10:00 am - 12:00 noon

Morning Tracks

Asteroids

10:00 am

10:40 am

11:05 am

11:30 am

Grand Ballroom D

OSIRIS-REx and Asteroid Bennu: There and Back Again. Richard Witherspoon (Lockheed Martin)

A Breakthrough Architecture for NEO and Lunar Resources to Enable New Industries in Cislunar Space. Dr. Joel C. Sercel (Trans Astronautica Corporation)

Building a Place in Space: Asteroidal Mars Cyclers. Marshall Eubanks (Asteroid Initiatives)

Commercial Market Forecasting for Asteroid Mineral Resources. Brad Blair (NewSpace Analytics)

Living In Space

10:00 am

10:35 am

11:00 am

Grand Ballroom B

Dr. Louis Kauffman -- Recursive Distinction Introduction. Howard Bloom (Space Development Steering Committee)

Print the Future Competition finalist

Dr. Louis Kauffman - Recursive Distinction Applications and Ramifications. Howard Bloom (Space Development Steering Committee)

Mars

10:00 am

11:00 am

11:10 am

Grand Ballroom A

To Mars by Way of Its Moons, Phobos and Deimos. Dr. Pascal Lee (Mars Institute, SETI Institute and NASA Ames Research Center)

NASA/NSS Student Space Settlement Contest Presentation

Virtually There: Simulating Our Way to Mars. Dr. Sheyna Gifford (NASA HI-SEAS)

NextGen

10:00 am

10:15 am

Midway Suite III

NASA/NSS Student Space Settlement Contest Presentation

Maker Families: Building Together on Space, Science, and Technology. Vikas Nath, et al., winning family of NASA Space Apps and Maker Fest awards

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NextGen

11:00 am

Pegram

Panel: Space STEAM Outreach. Loretta Whitesides (Virgin Galactic and Yuri's Night), Christine Nobbe (ISDC 2017 Conference Chair, National Space Society Board of Directors, St. Louis Space Frontier), Dr. David Thornburg (Polar3D), Jason Branham (NextGen and ISDC 2017 Education Chair), Janet Ivey (PBS' *Janet's Planet* and National Space Society Board of Governors), and Trish McCarty (StarShine Academy). Moderator: Mike Mongo (*The Astronaut Instruction Manual*)

Space Policy & Law

10:00 am

Grand Ballroom C

Implementation of Space Traffic Management of Suborbital Launches in the United States National Airspace. Melissa Force (Spaceport America)

10:20 am

Heavens, What a Mess! Understanding and Dealing with the Problem of Space Debris. Dr. William P. Schonberg (Missouri University of Science & Technology)

11:00 am

The Science of Laws: Essential Foundation of Space Governance. Dr. David G. Schrunk (Science of Laws Institute)

11:20 am

METI and the Danger of Scientific Paternalism. Dr. Kelly C. Smith (Clemson University)

Many Roads to Space

10:00 am

Midway Suite II

1. =IF(ISTEXT(MRTS!D20),MRTS!B20&" "&MRTS!C20&" ("&MRTS!D20&")",MRTS!B20&" "&MRTS!C20)

2. From Moon Rocks to Spacecraft LOX: Modernizing a Study and Comparing Reactions. Christopher Buelke (University of North Dakota)

11:00 am

1. Propellantless Propulsion From Casimir Forces. Robert DeBiase (Quantum Fire Project)

2. A Space Escalator. Gerard Fonte (The PAK Engineers)

Lunch

12:00 noon - 1:50 pm

Grand Ballroom F

Keynote Speakers: "Kepler/K2: One Spacecraft, Two Missions" Charles K. Sobeck, Kepler Project Manager, NASA Ames Research Center, and "Exoplanet Frontiers: Kepler & the Search for Life" Dr. Natalie Batalha, Kepler Project Scientist, NASA Ames Research Center Presenting of NSS Space Pioneer Award to the Kepler Mission Team, accepting Charles K. Sobeck and Dr. Natalie Batalha MC: Dr. Shawna Pandya, University of Alberta

Authors' StratoLounge

1:00 pm - 2:00 pm

2:00 pm - 3:00 pm

4:00 pm - 5:00 pm

Midway

Eric Bowen (National Space Society Book Reviews) and Pascal Lee (*Mission:Mars*)

Michael Mackowski (*Adventures in Space Advocacy*)

Christopher Stone (*Reversing the Tao: A Framework for Credible Space Deterrence*)

Student Awards

2:00 pm - 5:00 pm

Grand Ballroom DE

NSS/NASA Ames Space Settlement Contest Student Awards Ceremony

2:00 pm - 6:00 pm

Afternoon Tracks

Living In Space

2:00 pm

Grand Ballroom B (2:00 - 5:00)

Future Space Architecture. Ayse Oren (Ayse Oren Design Art)

3:00 pm

Print the Future Competition finalist

3:15 pm

Print the Future Competition finalist

3:30 pm

Panel: Space Abundance for Humankind's Needs. Howard Bloom (Space Development Steering Committee), Mark Hopkins (National Space Society Board of Directors), David Schrunk (Science of Laws Institute), Mike Snead (Spacefaring Institute), Christine Nobbe (St. Louis Space Frontier and National Space Society Board of Directors), and Madhu Thangavelu (University of Southern California). Moderator: Dr. Bob Krone (Kepler Space Institute)

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Mars

- 2:00 pm The Radiation and Planetary Protection Rackets. Dr. Robert Zubrin (The Mars Society)
- 3:00 pm An Orbital Mars Base Camp: Enabling Exploratiion of the Mars System. Rob Chambers (Lockheed Martin)
- 4:00 pm Exploring Mars: From Canals to *Curiosity*. Rod Pyle (Rod Pyle Books)
- 5:00 pm Deep Space Ecology for Life Support. Morgan Arena Irons (Deep Space Ecology)
- 5:30 pm Exploring Mars to Civilize Earth. Marvin Hilton (National Space Society and The Mars Society)

Many Roads to Space

- 2:00 pm "The Rocket Prince" picture book. Taichi Yamazaki (ASTRAX Inc. and Private Astronaut)

Space Policy & Law

- 2:00 pm **Grand Ballroom C (2:00 - 3:00)**
Panel. Now is the Time: A Paradigm Shift in Access to Space. Members of the National Space Society Policy Committee discuss the significance of the recent first re-use of the SpaceX Falcon 9 first stage and how it ought to affect space policy. Bruce Pittman (National Space Society COO, SVP, Policy Committee, and Board of Directors), Mark Hopkins (National Space Society Executive Committee Chair and Board of Directors), David Chevront (National Space Society Policy Committee), Al Globus (National Space Society Policy Committee and Board of Directors). Moderator: Dale Skran (National Space Society EVP and Policy Committee Chair)

Space Medicine

- 3:00 pm **Grand Ballroom C (3:00 - 6:00)**
Reduced Gravity Experiments on Parabolic Flights. Dr. Rolando Branly (Broward College)
- 3:30 pm Panel: Perspectives on Space Medicine and Technology. Dr. James Logan (Space Enterprise Institute), Dr Shawna Pandya, William Gardiner (Analytech)
- 4:30 pm Discussion: Open Source Tele-Robotic Surgery and Tele-Medicine. Dr. Rolando Branly (Broward)
- 5:00 pm Preparing for the Future and Space Station Opportunities. Dr. Carl Carruthers (Nanoracks) and Dr. Sean Casey (Silicon Valley Space Center)

Space Strategy

- Midway Suite II (3:00 - 4:00)**
Removing Near-Term First-Strike Instability in Space: A Review of Current United States "Strategy." Christopher Stone (Author)

NSS Meeting

- Grand Ballroom B (5:00 - 6:00)**
Town Hall Meeting
Meet the entire NSS Membership team, including Vice President for Membership Burt Dicht and Membership Committee Chair Ronnie Lajoie during this Town Hall meeting. This is your opportunity to learn more about NSS efforts to improve membership value and to ask questions and share your ideas on membership.

NSS Meeting

- 5:00 pm - 6:00 pm **Midway Suite II**
NSS Health Committee meeting with Bill Gardiner

Cocktail Reception

- 6:00 pm - 7:00 pm **Grand Foyer**

Gala Dinner

- 7:00 pm - 9:00 pm **Grand Ballroom EF**
"The Role of Space in National Security"
Keynote Speaker: Lt. Gen. Steven Kwast, Commander and President, Air University, USAF
Presenting of NSS Space Pioneer Award to George Dietrich, President, SPACE Canada
Presenting of Student Space Settlement Contest Grand Prize Award
ISDC 2018 Los Angeles Handoff
MC: Geoffrey Notkin, Aerolite Meteorites, Inc. and National Space Society Board of Governors
Gala Dinner Sponsored by SPACE Canada

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Party

9:00 pm - Till

Regency Ballroom

Space Rocks with Steve McCarty and the Billy Barnett Band with Tom Studebaker of The Studebakers

Movie: Passage to Mars

10:00 pm - Till

Grand Ballroom D

Dr. Pascal Lee, Mars Institute, SETI Institute and NASA Ames Research Center presents the movie *Passage to Mars*. A NASA Arctic expedition designed to be the first Martian road trip on Earth becomes an epic two-year odyssey of human adventure and survival.

Student Activity

9:00 pm - Midnight

Pegram, Midway and Midway Suites

NextGen Students Midnight Point Shopping Gallery!

Student Activity

10:00 pm - Midnight

Midway III

Space Settlement Hackathon with Mike Mongo (*The Astronaut Instruction Manual*)