

As of 5-13-18

Registration

8:00 am - 7:00 pm

Student Registration

9:00 am - 12:00 noon

Exhibit Hall

10:00 am - 6:00 pm

Space Art Exhibition

10:00 am - 6:00 pm

Morning Plenary

8:30 am - 9:45 am

Student Plenary

10:00 am - 10:45 am

10:00 am - 12:00 noon

LaunchPad

10:00 am

10:07 am

10:16 am

10:24 am

10:31 am

10:40 am

10:49 am

10:57 am

11:04 am

11:13 am

11:22 am

11:30 am

11:37 am

11:46 am

11:54 am

Many Roads to Space

10:00 am

10:30 am

11:00 am

11:30 am

Sunday, May 27

Century Prefunction

Grand ABC

Gateway & Century Prefunction

California Prefunction

The Art of Space - International Association of Astronomical Artists (IAAA)

Grand Ballroom

"Destinations: Putting People Into Space" (panel)

Panelists: Brad Blair, Al Globus, Dr. Pascal Lee, Rick Tumlinson, Dr. Robert Zubrin

Moderator: Madhu Thangavelu, Department of Astronautical Engineering, Viterbi School of Engineering & School of Architecture, University of Southern California

Grand Ballroom

"The Space Revolution Is You"

Keynote Speaker: Rick Tumlinson, Founder - Star Century Partners, Deep Space Industries, New Worlds Institute, Space Frontier Foundation

Morning Sessions & Symposia

Redondo Room

Introductory Remarks. Dr. Shawna Pandya (University of Saskatchewan)

Preparing for the Launch of Commercial Human Space Flight. Dr. Mindy Howard (Blue Abyss)

Evolving Into the Solar System With a Sensible Space Station Architecture. Rex Ridenoure (Ecliptic Enterprises Corporation)

Q&A

Telesurgery-Teleanesthesia Protocols Simulation Training in Remote and Extreme Environments. Dr. Susan Jewell (Mars Academy USA)

Saturn Ice Ring Exploration Network Mission Platform. Eric Shear (York University)

From 2001: A Space Odyssey to Present Day Reality: Developing Artificial Gravity Through Innovative Business Strategy. Emily Petersen (Purdue University)

Q&A

China's Silk Road versus America's Platinum Highway in the Sky. Howard Bloom (Space Development Steering Committee and National Space Society Board of Governors)

Project PoSSUM: Citizen-Science Aeronomy and Bioastronautics. Dr. Jason Reimuller (International Institute of Astronautical Sciences)

Blockchain Technologies for Outer Space Mineral Rights. Brinkley Warren (Entrepreneur)

Q&A

PocketPad: Concept for an Expendable Safe Lander Touchdown Accessory. Andrew Chao (Naval Air Weapons Station, China Lake)

Transforming Space Debris into a Valuable Commodity for In-Space Manufacturing. Gary Calnan (CisLunar Industries)

Questions & Wrap-Up

Salon 210 (2nd floor)

ASTRAX Zero Gravity Flight Services in Japan. Taichi Yamazaki (ASTRAX, Inc.)

ASTRAX Space Cruise Business. Yasuo Okada (ASTRAX CRUISE, Inc.)

The Ryman Small Satellite Project. Mayu Murayama (Ryman Satellite Project Team Representative)

Super Grand Slam Hike on Mt. Olympus. Makoto Hoshino (Makoto Inc.)

As of 5-13-18

Sunday, May 27

Space Business	Laguna Room
	Space Commerce and Entrepreneurship
10:00 am	Introduction.
10:05 am	Panel: The Current Space Commerce Ecosystem. Jim Keravala (OffWorld), Rich Pournelle (Nanoracks), John Quinn (Exos Aerospace Systems & Technologies, Inc.), Amanda Stiles (Rocket Lab USA) and Dennis Stone (NASA Johnson Space Center). Moderator: Eva-Jane Lark (BMO Nesbitt Burns)
11:00 am	Panel: Space Entrepreneur “War Stories.” Dennis Wingo (Skycorp), Rex Ridenoure (Ecliptic Enterprises Corporation), John Garvey (Vector Space Systems) and John Wilkes (Google Lunar X-Prize). Moderator: Dr. Ken Davidian (Federal Aviation Administration Office of Commercial Space Transportation)
Space Minerals	Seminar Room (2nd floor)
	Space Mineral Resources (SMR) session
10:00 am	Quantitative Estimation of Mining Costs and Production Levels for Lunar Base Partnerships. Brad Blair (NewSpace Analytics)
10:20 am	Success Criteria for Lunar Partnerships: Estimating Government Benefits and Commercial Enterprise Value. Hoyt Davidson (Near Earth LLC)
10:40 am	Evolvable Lunar Architectural Development: Strategies that Effectively Manage Risks to Enable Achievement of Rewards. David Chevront (Planetary Resource Engineering)
11:00 am	Approximation Methods for Modeling an Industrial Lunar Base. Hannah Rens (Planetary Resource Engineering)
11:20 am	Emerging Markets and Customers for Lunar Mineral Resources. Will McCarren (NewSpace Analytics)
11:40 am	Lunar Partnership Risk Assessment: A Systems-Level Perspective. Marshall Eubanks (Planetary Resource Engineering)
Space Security	Malibu Room
	Space Security & Policy
10:00 am	Panel: Economics (U.S.) – What Does Industry Need from Government? Support, Protection, Regulation & Business. Jeff Greason (Tau Zero Foundation, Agile Aero and Electric Sky), Jordan Noone (Relativity Space), Dennis Wingo (Skycorp) and William Pomerantz (Virgin Orbit). Moderator: Peter Garretson (Air University, U.S. Air Force)
11:00 am	Panel: Security (U.S.) – What Does Government Expect from Industry? Services & Obligations. Congressional Candidate Chris Hearsey, Michael Sanjume (Launch Enterprise Acquisition Division, U.S. Air Force), Peter Garretson (Air University, U.S. Air Force) and Stuart Witt (S.O. Witt & Associates). Moderator: Dr. Greg Autry (University of Southern California Marshall School of Business)
Space Settlements	Hermosa Room
10:00 am	Settling Space: A Practical Approach. Joe Bland (Sacramento L5 Society)
10:30 am	NSS/NASA Ames Student Space Settlement Contest Presentation
10:40 am	NSS/NASA Ames Student Space Settlement Contest Presentation
10:50 am	Panel: Where to Settle? Mars, Moon, Asteroids, or Free Space. Dr. Robert Zubrin (The Mars Society), Brad Blair (NewSpace Analytics), David Brin, and Al Globus (San Jose State University). Moderator: Anita Gale (Space Settlement Design Competitions)
11:00 am - 12:00 noon	Gateway Ballroom
	Exciting Student Universalization Debate Final on how to govern space and our world within it! Debate resolution: ‘Can universalization promote global peace through cooperation?’ Judges: Dr. Lorna Jean Edmonds (Ohio University) and Dr. Bob Krone (Kepler Space Institute)

As of 5-13-18

Sunday, May 27

Lunch

12:00 noon - 1:50 pm

Grand Ballroom

"Building a Robotic Industrial Workforce for Solar System Settlement"

Keynote Speaker: Jim Keravala, Co-Founder and Chief Executive Officer, OffWorld and National Space Society Board of Directors

MC: Jeff Greason, Chairman of the Board of the Tau Zero Foundation, CEO and Co-Founder of Agile Aero, Inc., CTO of Electric Sky and National Space Society Board of Governors

Student Awards

2:00 pm - 5:00 pm

Grand ABC

NSS/NASA Ames Space Settlement Contest Student Awards Ceremony

"A Revolution in Free Space Settlement"

Keynote Speaker: Al Globus, San Jose State University, National Space Society Board of Directors

2:00 pm - 5:00 pm

Afternoon Sessions & Symposia

Many Roads to Space

2:00 pm

3:00 pm

3:30 pm

4:00 pm

4:30 pm

Salon 210 (2nd floor)

Global and Space Orchestra Project. Hayaki Tsuji (Tsuji Music Office)

The Reality of a Future Space Traveler. Taiko Kawakami (Space Working Mother)

Overview of Acclaimed Artist Leiji Matsumoto Ukiyo-e Collection. Komei Okada (Candidisland,

Turning Trash into Treasure: Infrastructure for On-Orbit Reprocessing of Non-Responsive Space Debris. Dr. Patrick Neumann (Neumann Space)

Paving the Way for Orbital Debris Cleanup. David Dunlop (NSS International Committee)

NASA Concepts

2:00 pm

2:30 pm

2:45 pm

3:00 pm

3:15 pm

3:30 pm

3:45 pm

4:00 pm

4:30 pm

Redondo Room

NASA Innovative Advanced Concepts (NIAC)

NIAC Panel Discussion - What is NIAC? Jason Derleth (NIAC), Dr. Ron Turner (NIAC), John Nelson (NIAC) and Kathy Reilly (NIAC)

Dismantling Rubble Pile Asteroids with Area-of-Effect Soft-bots. Dr. Jay McMahon (University of Colorado, Boulder)

Fusion-Enabled Pluto Orbiter and Lander. Stephanie Thomas (Princeton Satellite Systems)

Brane Craft: An Ultra-light Dynamic Membrane Spacecraft. Dr. Siegfried Janson (The Aerospace Corporation)

Tensegrity Approaches to In-Space Construction of a 1g Growable Habitat. Anthony Longman (Skyframe Research & Development, Inc.)

Directed Energy for Interstellar Probes. Dr. Philip Lubin (University of California, Santa Barbara)

Pluto Hop, Skip, and Jump. Dr. Benjamin Goldman (Global Aerospace Corporation)

Panel: How to propose to NIAC. Jason Derleth (NIAC), Dr. Ron Turner (NIAC), John Nelson (NIAC) and Kathy Reilly (NIAC)

Q&A

Space Business

2:00 pm

2:10 pm

3:00 pm

Laguna Room

Farmer in the Sky

Introduction.

The Real Martian. Jeff Raymond

Panel: Farmer in the Sky. Jeff Raymond (The Real Martian), Phil Sadler (Controlled Environment Agriculture Center), Bruce Vanaman (Evello International) and Bart Womack (Eden Growth Systems). Moderator: Thomas Andrew Olson (The Center for Space Commerce & Finance)

As of 5-13-18

Sunday, May 27

<p>Space Minerals</p> <p>2:00 pm</p> <p>2:10 pm</p> <p>2:15 pm</p> <p>2:30 pm</p> <p>3:00 pm</p> <p>3:35 pm</p> <p>4:00 pm</p> <p>4:30 pm</p> <p>Space Security</p> <p>2:00 pm</p> <p>3:30 pm</p> <p>Space Settlements</p> <p>2:00 pm</p> <p>2:30 pm</p> <p>3:00 pm</p> <p>3:30 pm</p> <p>4:00 pm</p> <p>4:30 pm</p> <p>NSS Meeting</p> <p>3:00 pm - 4:00 pm</p> <p>NSS Meeting</p> <p>5:00 pm - 5:45 pm</p>	<p>Seminar Room (2nd floor)</p> <p>International Academy of Astronautics Space Mineral Resources Workshop</p> <p>Workshop Kick-off. Art Dula (Heilein Prize Trust and International Academy of Astronautics)</p> <p>Workshop Direction and Objectives. Dr. Peter A. Swan (International Space Elevator Consortium and International Academy of Astronautics)</p> <p>Workshop Initiation. Roger Lenard (Zodiac Field Services and International Academy of Astronautics)</p> <p>Benefits to Earth. Dr. Peter A. Swan (Zodiac Field Services and International Academy of Astronautics)</p> <p>Case Study Reviews. Roger Lenard (Zodiac Field Services and International Academy of Astronautics)</p> <p>Review, Questions and Suggestions.</p> <p>Legal Situation and Projection to Future. Art Dula (Heilein Prize Trust and International Academy of Astronautics)</p> <p>Review, Questions and Suggestions.</p> <p>Malibu Room</p> <p>Space Security & Policy</p> <p>Panel: Security (U.S.) – Space Corps, Force or Guard – Roles and Missions for a Uniformed Space Service. Dr. George Nield (Federal Aviation Administration and Aerospace Safety Advisory Panel), Michael Laine (LiftPort Group) and Roger Lenard (Zodiac Planetary Services). Moderator: Dr. Greg Autry (University of Southern California Marshall School of Business)</p> <p>Panel: Geopolitical & Economics (International) – Toward the Creation of an International Liberal Order and the Associated Governing Organizations in Space. Ken Davidian (Federal Aviation Administration Office of Commercial Space Transportation), Dr. Ming Zhang (Florida Institute of Technology), Dr. Thomas L. Matula (Sul Ross State University, Texas) and Dr. Nikola Schmidt (Charles University Prague). Moderator: Peter Garretson (Air University, U.S. Air Force)</p> <p>Hermosa Room</p> <p>Space Habitat Orientations: Power, Thermal, and Visual Considerations for Tourism and Settlement in LEO and Beyond. Stephen D. Covey (Deep Space Industries)</p> <p>Where’s the Stuff? An Overview of Solar System Properties and Resources. Dr. Seth D. Potter (SDP Space Systems)</p> <p>Maximizing the Chances for Survival; The Case for Including Disabled People among Initial Colonists. Dr. Sheri Wells-Jensen (Bowling Green State University) and Dr. Joshua A. Miele (Smith-Kettlewell Eye Research Institute)</p> <p>The Astrosociology Research Institute Celebrates Its Tenth Anniversary. Dr. Jim Pass (Astrosociology Research Institute)</p> <p>Building Codes for Off-World Applications. Patrick Anselmo Donovan (Space Cooperative)</p> <p>Lunar Infrastructure Research for Pay and for Play. Hannah Rens (University of Texas at Austin)</p> <p>Boardroom (2nd floor)</p> <p>NSS International Committee meeting</p> <p>Redondo Room</p> <p>NSS Membership Town Hall Meeting</p> <p>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.</p>
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As of 5-13-18

Sunday, May 27

Showcase Event

5:00 pm - 8:00 pm

Cocktail Reception

6:00 pm - 7:00 pm

Gala Dinner

7:00 pm - 9:00 pm

NSS Meeting

10:00 pm

NSS Meeting

10:00 pm - Till

NSS Board Meeting

9:00 am - 7:00 pm

Gateway Ballroom

Filipino Heritage Night - Experience Philippine food, fashion, arts and culture in one space. And find out why everyone is saying it's more fun in the Philippines.

Century Prefunction

Grand Ballroom

"State of Space Solar Power R&D in China"

Keynote Speaker: Dr. Li Wang, Director, Space Solar Power Satellite Project, China Academy of Space Technology

ISDC 2019 Handoff

MC: Harry Hamlin, Founder, Tri Alpha Energy and National Space Society Board of Governors

Gala Dinner Sponsored by SPACE Canada

Redondo Room

Space Settlement Summit 2018 Planning Meeting

tbd

Monday, May 28

Santa Catalina (3rd floor, up escalators)