

As of 6-5-19

Thursday, June 6

Registration

8:00 am - 7:00 pm

South Foyer

Student Registration

9:00 am - 6:00 pm

North 1

Morning Plenary

8:30 am - 9:45 am

Commonwealth South

Welcome & MC: Dr. Greg Autry, ISDC 2019 Conference Chair, University of Southern California Marshall School of Business and National Space Society Board of Directors
 Opening Remarks: Dale Skran, Chairman of the Executive Committee and National Space Society Board of Directors
 "How to Get Back to the Moon"
 Keynote Speaker: Mark Sirangelo, Renowned Commercial Space Veteran and Scholar in Residence at the University of Colorado

Student Plenary

10:00 am - 10:45 am

Commonwealth South

"ASTRO - NOT - QUITE. Or, how my life straddled the two great ages of spaceflight, how I ended up collecting things that fell from space (meteorites) instead of going into space myself ... and why it is ISDC students who will help me finally get there."
 Keynote Speaker: Geoff Notkin, President, National Space Society and National Space Society Board of Governors

10:00 am - 12:00 noon

Morning Sessions

Earth Independence

Concourse 1

10:00 am

Achieving Earth Independence

Earth Independence: Introduction & Rationales. Dr. Doug Plata (The Space Development Network)

10:30 am

Local Resources & Metallurgy. Dr. Philip Metzger (University of Central Florida - Florida Space Institute)

10:55 am

How Will We Produce Parts From Local Metals? Rion Motley (WetSpark Innovations, LLC)

11:20 am

NSS Student Space Settlement Contest Presentation

11:35 am

Producing Chemicals Needed by the Colony. Dr. Jeffery Greenblatt (Emerging Futures, LLC)

New Launchers

North 3

10:00 am

Panel: Exciting New Launchers

Rich DaBello (Virgin Orbit), Joshua Brost (Relativity Space), Lars Hoffman (Rocket Lab), Greg Orndorff (Vector Launch), and Les Kovacs (Firefly Aerospace). Moderator: Dr. Greg Autry, Vice President of Space Development, National Space Society

A discussion of the dynamic new launcher market. How many of the new entrants will actually launch payloads? Will demand be sufficient to support them? What differentiates the vehicles and business models of these firms?

Space Infrastructure

Concourse 2

10:00 am

Spaceports of the World. Thomas G. Roberts (Center for Strategic and International Studies)

10:20 am

The Space Conveyor Could Revolutionize Space Travel. Stanley Korn

10:40 am

Evolving Space Industry & Technologies to Meet Today's NewSpace Requirements. Brian Ippolitto, Rob DeSimone & Jonathan Griffith (Marotta Controls)

11:10 am

Beyond Rovers: Mobility for Continuous Operations on the Moon and Mars. Dr. Gordon Roesler (Robots in Space LLC)

11:35 am

MISSE: A Commercial Orbital Testing Platform & Turn-Key Service. Mark Gittleman (Alpha Space)

Space Solar Power

North 2

10:00 am

Perspectives End-to-End System of Systems Considerations

IAA Space Solar Power Decadal Assessment Workshop.

11:45 am

Solar Cells for Space Applications: Gamma Radiation Resistance Testing. Michaela Rabochova (Research Centre Rez Ltd.)

NSS Meeting

11:00 am - 12:00 noon

Mezzanine 3

Roadmap to Space Settlement

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Lunch

12:00 noon - 1:50 pm

Commonwealth South

"The Pioneering Nature of Space Exploration"

Keynote Speaker: Eileen Collins, former NASA Space Shuttle Astronaut

Presenting of NSS Space Pioneer Award to Eileen Collins

MC: Janet Ivey, President/CCO, Janet's Planet, Inc. and National Space Society Board of Governors

Meeting

12:00 noon - 2:00 pm

Boardroom

CSCF Meeting

Student Poster Session

1:30 pm - 3:30 pm

Cavalier

NSS Space Settlement Contest posters on display with the student presenters.

2:00 pm - 5:00 pm

Afternoon Sessions

Moon

2:00 pm

2:15 pm

2:30 pm

2:45 pm

3:00 pm

3:15 pm

3:30 pm

3:45 pm

4:00 pm

4:15 pm

4:30 pm

4:45 pm

North 3

Visions and Policy

Moon, Mars and Beyond. Mark Hopkins (National Space Society)

Once We Went to the Moon. Dr. John Logsdon (George Washington University Emeritus)

Human Spaceflight - Program and Plans. Marshall Smith (NASA)

Due Regard for Apollo? Heritage and the Future of Property in Space. Michelle L.D. Hanlon (For All MoonKind)

Relevance of Moon Treaty. Dale Skran (National Space Society)

NSS Student Space Settlement Contest Presentation

Overview Effect. Frank White (OverView Institute)

(tbd)

Democracy or Authoritarian Regime in the First Space Colony. Dr. Nikola Schmidt (Charles University)

The Instant Moon Program. Howard Bloom (NSS Board of Governors)

Space 2.0: The Dawn of a New Space Age. Rod Pyle (Ad Astra Magazine)

First Woman on the Moon. Allyson Reneau (International Space University)

Space Business

2:00 pm

2:30 pm

3:00 pm

3:30 pm

4:00 pm

4:30 pm

Concourse 2

The Business of Space

NSS Student Space Settlement Contest Presentation

The "Space-Scalable" Strategy: How to Profitably Invest in the New Space Economy Without Being a Self-made Billionaire. Thomas Andrew Olson (The Center for Space Commerce & Finance)

Understanding Value. Aaron Pagel (The Center for Space Commerce & Finance)

The Economics of Orbital Debris. Dr. Nodir Adilov (Purdue University Fort Wayne)

The State of NewSpace: Thousands of Companies, Trillions in Opportunity. Meagan Crawford (SpaceFund)

The (New) Golden Age of Space. Michael Laine (LiftPort Group)

Space Solar Power

2:00 pm

2:30 pm

3:00 pm

4:00 pm

4:45 pm

North 2

Space Solar Power and the Dying Electric Power Grid. Darel Preble (Space Solar Power Institute)

Space Solar Power. John C. Mankins (Mankins Space Technology, Inc.)

International Space Solar Power Perspectives Panel Discussion. Moderator: John C. Mankins

2019 International Space Solar Power Student Competition Presentations.

College Team Presentations

Announcement of Finalists

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Space Transportation	Concourse 1
2:00 pm	Space Transportation- State of the Industry & Future Point to Point Human Spaceflight. Oscar S. Garcia (InterFlight Global Corporation)
2:20 pm	Reusable Launch and Global Reach- Past, Present and Future. Jess Sponable (Icefox Technologies)
2:50 pm	Spaceports: Enabling the Space Economy. Dr. George Nield (Commercial Space Technologies)
3:20 pm	Space Traffic Management and Control of Low Earth Orbits. Dr. Marshall Kaplan (Launchspace Technologies Corporation)
3:50 pm	Space Traffic Management Standards, Best Practices and Guidelines. Dr. Michael Gleason (The Aerospace Corporation)
4:20 pm	International Implications-The Case of the ICAO Space Learning.Group. Dorothy Reimold (Office of Commercial Space Transportation, FAA)
4:50 pm	Conclusions and Forward Looking Perspectives. Oscar S. Garcia (InterFlight Global Corporation)
Panel Discussion 2:15 pm - 3:15 pm	Galaxy (16th floor) Panel Discussion with Policy Experts: Space Policy and How It Fits into Space Settlements. Facilitated by: Dr. LJ Edmonds, Vice Provost for Global Affairs and International Studies, Ohio University
Student NextGen Program 3:30 pm - 5:00 pm	Commonwealth South "Personal Trajectories: Finding Your Future Space" Dr. Ellen R. Stofan, Director, Smithsonian National Air and Space Museum and former NASA Chief Scientist
Student spUN Debate 3:30 pm - 5:00 pm	Galaxy (16th floor) spUN Student Debate Orientation
NSS Meeting 5:00 pm - 7:00 pm	Galaxy (16th floor) NSS Chapters Assembly
VIP Reception 5:00 pm - 6:00 pm	Mezzanine 3 Gerard O'Neill Voyagers Circle members meeting/reception with NSS Leadership
Cocktail Reception 6:00 pm - 7:00 pm	Assembly Foyer Open reception includes a cash bar and appetizers.
Dinner 7:00 pm - 9:30 pm	Commonwealth South Keynote Speaker: Jeffrey Manber, CEO, NanoRacks Presenting of NSS Space Pioneer Award to Jeffrey Manber NSS Chapter Awards MC: Hoyt Davidson, Near Earth LLC and National Space Society Board of Directors
Movie Screening 7:30 pm - 9:30 pm	Galaxy (16th floor) ISDC Film Festival - "First to the Moon: The Journey of Apollo 8" Directed by Paul Hildebrandt. Introduced by Executive Producer Geoffrey Notkin.
NSS Meeting 10:00 pm - Till	Mezzanine 3 MIS Team meeting
NSS Meeting 10:00 pm - Till	tbd