



ISDC 2023 Schedule

As of 5/19/23

Registration

8:00 am - 7:00 pm

Morning Plenary

8:30 am - 9:45 am

Student Plenary

10:00 am - 10:45 am

10:00 am - 12:00 noon

Space Settlement

10:00 am

10:30 am

11:00 am

11:30 am

Many Roads to Space

10:00 am

10:25 am

10:45 am

11:15 am

11:30 am

Living In Space

10:00 am

10:45 am

11:00 am

11:30 am

Lunch

12:00 noon - 1:50 pm

Student Poster Session

1:30 pm - 3:30 pm

Friday, May 26

Pre Convene

Pre Convene (Student Registration 9:00 am - 6:00 pm)

Frisco 1&2

Panel: "Women Forging the Next Frontier. Female Leadership Launching Us to the Future."

Host: Holly Melear, CEO & Founder, STEAMSPACE Education Outreach

Panelists: Janet Ivey, President, Explore Mars, CEO, Janet's Planet, National Space Society Board of Governors; Melodie Yashar, VP Building Design, ICON; U.S. Congresswoman Jasmine Crockett, 30th District; Anita Gale, Chief Executive Officer, National Space Society, National Space Society Board of Directors

Moderator: Lady Cude, Space Industry Professional, National Space Society of North Texas

Frisco 1&2

"The Future of Space as Seen by a Former NASA Astronaut, Bonnie Dunbar"

Featuring Dr. Bonnie Dunbar, NASA Astronaut (Ret.), Texas A&M University, Engineer and Educator and Lilly Hayder, Canadian Space Society

Morning Sessions

Frisco 3

Keto in Space: Protein Targeted Space Agriculture and How it Affects Overall Mass Flow. Bryce Meyer (NSS Space Ambassadors)

Evaluating the Market for Commercial Space Stations. Jim Plaxco (NSS Space Ambassadors)

Interstellar Lab: Combining Hardware, AI and Computational Biology to Build Controlled-environment Biofarms in Space. Barbara Belvisi (Intersellar Lab)

Effect of Spaceflight, Lunar and Martian Regolith on Plant Telomeres and Telomerase. Borja Barbero Barcenilla (Texas A&M)

Frisco 4

Preliminary Crewed Rover Traverses from Candidate NASA Artemis Base Camp Sites. Sophia English (Texas A&M University)

NSS Student Space Settlement Contest Presentation: Astraeus. Irina Popa, Andrei Pirii, Daria Necsoi and Vlad Luca Marginean (Andrei Saguna National College, Brasov, Romania)

Texas Woman's Wearable Technology: Applications for Life in Microgravity. Dr. B. Rhett Rigby (Texas Woman's University) and Hunter Alvis (Texas Woman's University)

Student Designed Microgravity Experiments for Zero-G Flights. Elena Johansen, Nola Quinn, Jamison Difrances and Lalitha Murali (Glendale River-Hills School District, WI)

Science Fiction Can Serve as an Impetus for Generating Interest in Space in the General Public. Nancy Golden (NSS North Texas)

Frisco 5

Why Space Exploration and Why is it Inevitable? Dr. Ajay Kothari (Astrox Corporation)

NSS Student Space Settlement Contest Presentation: Voluptouria. G Lathika, G Lakshaya, Havila Joycee, Riha Farheen and A Narayana (Olympiad School, Pattalam, Chennai, Tamilnadu, India)

Can Spaceflight Blow Your Mind - Psychological Challenges for Long-Duration Missions. Loretta Hall (NSS Space Ambassadors)

Founding Startups for a Multiplanetary Economy. Kent Nebergall (Mars Society)

Frisco 1&2

"The Future of the NewSpace Industry: Enablers and Impediments"

Keynote Speaker: Dylan Taylor, CEO, Voyager Space

Presenting of Jim Baen Memorial Short Story Award

MC: Kirby Ikin, Managing Director, Asia Pacific Aerospace Consultants and Chair, National Space Society Board of Directors

Frisco 6

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



ISDC 2023 Schedule

As of 5/19/23

Friday, May 26

2:00 pm - 5:00 pm

Space Settlement

2:00 pm

2:30 pm

3:00 pm

3:30 pm

4:00 pm

4:15 pm

4:45 pm

5:00 pm

5:20 pm

5:40 pm

Many Roads to Space

2:00 pm

2:25 pm

2:40 pm

3:10 pm

3:40 pm

4:00 pm

4:30 pm

Living In Space

2:00 pm

3:00 pm

3:30 pm

4:00 pm

4:30 pm

5:00 pm

Afternoon Sessions

Frisco 3

Revolutionizing Space Exploration: Harnessing 3D Printed Parts for Enhanced Performance and Efficiency. Taylor Hardy (Elk3D)

Advanced Crewed Asteroid Mining Architectures. James Wolff (High Frontier Mining Corp.)

Moon Settlement and Space Solar Power - a Match Made in Heaven. Darel Preble (Space Solar Power Institute)

The Debatable Economics of Space Solar Power for Earth and A More Promising Way to Reach Net-Zero with a Space Spin-Off Technology. Philip Swan (The Atlantis Project)

NSS Student Space Settlement Contest Presentation: Delphos. George-Alexandru Berea, Alexandru Meynaghi-Aghdam, Calin Mihai Nita, Dimitrie Dan Bolea, Ilinca Sandu, Ioan Apalaghiei, Matei Magdalina, Simon-Dimitrie Lupascu and Ioan-Tudor Hanganu (Colegiul National Petru Rares, Piatra Neamt, Neamt County, Romania)

Recent Advances in Biosphere2. Trent Tresch (University of Arizona)

NSS Student Space Settlement Contest Presentation: AuDacia. Toma Niculica, Alexandru Zob, Andrei Midache, Matei Lazar, Matei Iordache, Raisa Spanelis, Alexia Andrei, Vlad Olariu, Delia Nazare, Razvan Manolache, Robert Stanescu and Mihai Viteazul (National College, Bucharest, Romania)

(Re)-Introducing the NSS Gerard K. O'Neill Space Settlement Contest. Matthew LeVine (NSS Gerard K. O'Neill Space Settlement Contest)

Behind the Scenes of Organizing the Space Settlement Design Competition. Anita Gale (Space Settlement Design Competition)

Panel: Discussion on Space Settlement Contest Implementations. Anita Gale and Matthew LeVine

Frisco 4

Indigenous Space is about Tribal Sovereignty. Cara Bieber (For All Moonkind)

NSS Student Space Settlement Contest Presentation: The Revolution. Mahimn Patel, Deep Patel, Rehan Jafar and Neel Pathak (Central Peel Secondary School, Ontario, Canada)

Building a Sustainable Future: Announcing the Earth-Space Development and Conservation Center. David Cheuvront (Founder), Daniel Inocente (Architect and Space Architect) and Daniel Tompkins (GrowMars)

GITAI: Providing Safe and Affordable Means of Labor in Space. Sho Nakanose (GITAI USA Inc.)

NSS Student Space Settlement Contest Presentation: Ex Nihilo Omnia. Darius Chitu (Andrei Saguna National College, Brasov, Romania)

NSS Student Space Settlement Contest Presentation: The Kilo Hoku Settlement. Nick Georges, Francis Kalenja, Avery Saliba, Joelle Rosenbaum, Luca Lamoureux, Lana de Kock, Lexi Shaw and Thaman Venigalla (Astra Nova School, Rancho Palos Verdes, California, USA)

Cybernetic Telepresence Humanoid Avatars and Applications for Creating New Paradigms for Space, Healthcare, Education, and Entertainment. Dr. Susan Ip-Jewell (AvatarMEDIC Inc.)

Frisco 5

Panel: Space Hates People (but People Love Space). Dr. David Livingston (The Space Show) and Dr. Pascal Lee (Mars Institute). Moderator: Rod Pyle (*Ad Astra*)

Retrospective: 22 Years and Over 4,000 Interviews on Dr. David Livingston's The Space Show. Dr. David Livingston (The Space Show)

How Lockheed & Partners are Augmenting & Innovating on NASA's Artemis Missions. Chris Lauber (Lockheed Martin)

AD OASEAS – Towards the Establishment of an Analog Space Research Capability in Africa. Dr. Claire Nelson (Sustainability Engineer)

Boldly Going Where No Archaeologists Have Gone Before: The International Space Station Archaeological Project. Dr. Justin Walsh (Chapman University)

What Can We Create on Mars? Dr. Robert Zubrin (The Mars Society)



ISDC 2023 Schedule

As of 5/19/23

Silent Auction

2:00 pm - 7:00 pm

NSS Workshop

3:00 pm - 5:00 pm

Student NextGen Program

3:30 pm - 5:00 pm

Cocktail Reception

6:00 pm - 7:00 pm

Governors' Dinner

7:00 pm - 9:30 pm

NSS Meeting

10:00 pm - Till

Friday, May 26

Pre Convene

Thanks to the generous contributions of longtime NSS member Joe Rauscher, we will be holding a silent auction of remarkable mementos from science fiction and spaceflight. The items up for sale include unique and one-of-a-kind items from your favorite motion picture and television franchises. Many of these are unique and irreplaceable so be sure to get your bids in early! Proceeds will benefit NSS programs in STEM education, career development and support, space solar power, and inclusion/diversity. The Silent Auction will end on Saturday, May 27 at 6:50 PM.

Whirlaway (2nd floor)

Using AI Tools to Generate Art and Text. Jim Plaxco, Digital Creator, Artsnova

Frisco 1&2

"The Fine Print for Artemis: 3D Technology"

Presented by Firehawk Aerospace

Hosted by Students for the Exploration and Development of Space (SEDS)

Pre Convene

Open reception includes a cash bar and appetizers.

Frisco 1&2

"Thinking Outside the Sphere"

Keynote Speaker: Dr. Bonnie Dunbar, NASA Astronaut (Ret.), Texas A&M University, Engineer and Educator

Governors' Message: Col. Karlton D. Johnson, USAF (Ret.), Chairman, NSS Board of Governors

Presenting of NSS Chris Pancratz Activist of the Year Award

Presenting of NSS Excellence Awards

MC: Art Dula, Heinlein Prize Trust and National Space Society Board of Governors

Dinner Sponsored by the Heinlein Prize Trust

NSS Networking