



ISDC 2023 Schedule

As of 5/23/23

Registration

8:00 am - 7:00 pm

Morning Plenary

8:30 am - 9:45 am

Student Plenary

10:00 am - 12:00 noon

Sunday, May 28

Pre Convene

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

Frisco 1&2

Panel: "Space 2.0: The New Space Age Continues"

Panelists: Eileen Collins, NASA Space Shuttle Astronaut (Ret.), Greg Autry, Clinical Professor & Director of Space Leadership at Thunderbird School of Global Management and NSS VP of Space Development; and Daniel Suarez, NYT Best-Selling Novelist and Visionary

Moderator: Rod Pyle, Space Author, Journalist and Editor-in-Chief, *Ad Astra* Magazine, National Space Society

Frisco 6

"Flying Student Experiments in Zero-G Aircraft"

Flying student experiments on a Zero-G aircraft is for Everyone! Learn how NSS, NASA, and other organization work together with students and teachers to fly student-driven, authentic research experiments in the microgravity environment aboard a Zero-G parabolic flight. In this presentation, educators and students will share their experiences and explain how to fly student research on a microgravity airplane flight. Other student experiment research opportunities will also be discussed. TV Emmy award winning personality Janet Ivey will moderate the panel of teachers and students that have flown and are preparing to fly experiments on Zero-G Corporations microgravity flights. You can do this too!

10:00 am - 12:00 noon

Moon

10:00 am

10:25 am

10:50 am

11:10 am

LaunchPad

10:00 am

10:05 am

10:13 am

10:21 am

10:27 am

10:35 am

10:43 am

10:51 am

11:07 am

11:15 am

11:23 am

11:31 am

11:39 am

11:47 am

11:52 am

Morning Sessions

Frisco 3

NASA Artemis Base Camp: Base Layouts at Candidate Sites Near the Lunar South Pole and Moon-To-Mars Lessons. Cody Johnson (SETI Institute)

Grading the Artemis Basecamp. Peter Garretson (American Foreign Policy Council)

NSS Student Space Settlement Contest Presentation: New Ellis: A Gate of Promise. Ileana Anastase, Razvan-Andrei Juncu, Anton-George Moinescu, Mara-Octavia Alexandru and Andrei-Vlad Ghitescu (Gheorghe Sincai National College and George Cosbuc National College, Bucharest, Romania)

Panel: Lunar Surface Infrastructure: What are the driving requirements? Exploring how outcome-based programs driven by known science, systems engineering, and architectural design can maximize the probability of success. Sam Ximenes (XArc Inc), Ayse Oren (OASIS) and Madhu Thangavelu (University of Southern California). Moderator: Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc.)

Frisco 4

Introductory Remarks Shawna Pandya

Sex in Space in the Era of Space Tourism. Dr. Alex Layendecker (Astrosexological Research Institute)

A Circus in Space. Adam Dipert (North Carolina State University)

Questions

Space Independence. Kent Nebergall (The Mars Society)

Securing the Final Frontier. Ed Koellner (USAA Federal Savings Bank)

Using the MetaVerse to Settle Mars. Camisha Simmons (Simmons Legal PLLC)

Questions

Medical Considerations for Prolonged Human Spaceflight: Current Capabilities and Future Challenges. Tony Smith (United States Air Force)

Psychological Considerations for Long-Duration Missions. Loretta Hall (NSS Space Ambassadors)

Questions

Accessibility in Space. Dr. Sheyna Gifford (AstroAccess)

Disabilities as Superpowers in Space. Cazoshay Marie (Divine Intervention Design)

Questions

Closing Remarks Shawna Pandya



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Living In Space	Frisco 5
10:00 am	Mars 2020, Perseverance, and Mars Sample Return: Next Steps Towards Humans on the Red Planet. Dr. Jim Bell (Arizona State University)
10:45 am	NSS Student Space Settlement Contest Presentation: Gaia's Hope. Kashyap Patel, Mashraful Choudhury, Ruhaim Ali, Mehtab Cheema, Anant Duggal, Tanvir Gahunia, Kushal Patel and Pragalvha Sharma (Central Peel Secondary School, Ontario, Canada)
11:00 am	Stories from Shuttle Mission Control. Marianne Dyson (NSS Advisors)
Lunch	Frisco 1&2
12:00 noon - 1:50 pm	"Achieving Critical Mass" Keynote Speaker: Daniel Suarez, Science Fiction Author, "Critical Mass" MC: Dale Skran, National Space Society Senior Vice President/Chief Operating Officer and National Space Society Board of Directors
Student Ceremony	Frisco 6
2:00 pm - 5:00 pm	NSS Space Settlement Student Recognition Ceremony "Farther, Faster, Higher." Speaker: Eileen Collins, NASA Space Shuttle Astronaut (Ret.)
2:00 pm - 6:00 pm	Afternoon Sessions
Moon	Frisco 3
2:00 pm	Unlocking Lunar Opportunities for Profitable Space Commercialization. Erik Franks (Cislune
2:30 pm	Moon Sweep: Keeping Lunar Orbits Clean of Orbital Debris. Dr. Greg Autry (Thunderbird School of Global Management)
3:00 pm	Creating Food and Dining Experience for Space Adventurers. Carla Uyeda (CHEF in Space,
3:30 pm	Cave Exploration on the Moon as a Moon-To-Mars Priority. Dr. Pascal Lee (Mars Institute, SETI Institute & NASA Ames Research Center)
4:00 pm	BuzzCraft: Earth-Moon Cyler Concept Architecture to Expedite Moon-to-Mars Program. Madhu Thangavelu (University of Southern California)
4:30 pm	Colluding with Reality: The Path to Making In Situ Resource Utilization Happen. Anastasia Ford (NASA JSC Lunar Development Test Facility)
5:00 pm	Off-world Anthropologic Space Infrastructure Settlement (OASIS) Project. Ayse Oren (OASIS Lead Architect), Abdulaziz Alareedh (OASIS Chief Scientist) and Gary Barnhard (OASIS Program Manager & Lead Systems Engineer)
Space Health	Frisco 4
2:00 pm	Analog Space Clinic for Medics, Space Medicine and Health for Isolated, Confined, Environments. Dr. Susan Ip-Jewell (MMAARS, Moon Astronautics Academy and Research
2:25 pm	The MediNAUT- A Telerobotic, Telepresence "humanoid" Avatar Surgeon Drone-Rover. Emmi Jewell (AvatarMEDIC)
2:50 pm	Astro-Psychiatry and Human Factors for Long Duration Missions. Dr. Maria Harney (STEAM for Humanity)
3:15 pm	Cosmology Evolution Space Diet and Health. Dr. Gerald McLaughlin (National Institutes for Health)
3:40 pm	SpaceEdge Academy: Why a Food and Nutrition Timing Plan for Space Flight to Mars? Bill Gardiner (Analytech, A Division of Laboratory Consulting Source, Inc.)
4:05 pm	Panel Discussion: How Do We Make Improved Space Food a Model for Improvements to Earth Food? Dr. Susan Ip-Jewell (MMAARS), Emmi Jewell (AvatarMEDIC), Dr. Maria Harney (STEAM for Humanity), Dr. Gerald McLaughlin (National Institutes for Health). Moderator: Bill Gardiner (Analytech)
4:45 pm	Conclusion. Bill Gardiner (Analytech, A Division of Laboratory Consulting Source, Inc.)



ISDC 2023 Schedule

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Sunday, May 28

Living In Space

2:00 pm

2:45 pm

3:00 pm

3:30 pm

4:00 pm

4:30 pm

Frisco 5

Space Station Environmental Conditions and Human Mental Health. Logan Smith (Oklahoma State University)

Emotional and Physical Health of Space Settlers Through the Use of Music and Sound Frequency. Annamaria Chilimintris (Violinist)

Potential Spaceflight Applications for Galvanic Vestibular Stimulation. Dr. David Temple (University of Colorado Boulder)

Rockets Were the Easy Part: Building Equitable Societies in Space. Dr. Erika Nesvold (JustSpace Alliance)

Disabled in Space: Accessibility Considerations on Space Settlements. Marie Cazoshay (Divine Intervention Design)

Conversation Between Editors: Discussion of Experiences, Challenges, and Rewards of Editing Space Related Articles and Books. Melissa Silva (*Ad Astra*) and Dr. Sherry Bell (National Space Society, Kepler Space University)

Cocktail Reception

6:00 pm - 7:00 pm

Pre Convene

Open reception includes a cash bar and appetizers.

Dinner

7:00 pm - 9:00 pm

Frisco 1&2

"The Big Chill: How Space Solar Power Will Flight Climate Change"

Fireside Chat: Isaac Arhur, President, National Space Society and Rod Pyle, Editor-in-Chief, *Ad Astra* Magazine, National Space Society

"Through the Glass Ceiling to the Stars"

Speaker: Eileen Collins, NASA Space Shuttle Astronaut (Ret.)

MC: Dr. Anthony Paustian, Vice President of Marketing, National Space Society

Dinner Sponsored by SPACE Canada

NSS Meeting

10:00 pm - Till

NSS Networking

Monday, May 30

NSS Board Meeting

9:00 am - 7:00 pm

Ranger-Sea Biscuit-Traveller (2nd floor)