

As of 5-21-19

Registration

8:30 am - 9:00 pm

Student Registration

10:00 am - 9:00 pm

8:30 am - 4:30 pm

9:00 am - 12:00 noon

Space Policy Forum

9:00 am

9:15 am

9:35 am

10:20 am

10:30 am

11:00 am

Space Solar Power

9:00 am

9:15 am

9:30 am

9:45 am

10:00 am

10:15 am

10:30 am

10:45 am

11:00 am

11:15 am

11:30 am

11:45 am

Lunch

12:00 noon - 1:45 pm

Wednesday, June 5

South Foyer

North 1

Tours (depart from and return to the hotel at different times)

Morning Sessions

Galaxy (16th floor)

Policy Forum on Space Settlement

Welcoming Remarks. Dave Dressler (NSS Conference Committee Chair) and Steve Wolfe (SpaceCom & Forum Chair)

\$1 Trillion Space Economy to Support Space Settlement. Kevin O'Connell (U.S. Dept. of Commerce)

What is a Space Settlement on the Moon, Mars and Free Space? Jim Keravala (OffWorld) and Al Globus (San Jose State University)

Declaration of Human Rights in the Universe. Rick N. Tumlinson (SpaceFund)

Break

How Current Space Law Encourages and Inhibits Space Settlement Development. Dale Skran (National Space Society), Aaron Oesterle (Space Frontier Foundation), Laura Montgomery (The Catholic University of America), James Wolff, Esq. (Orbital Assembly Corporation). Moderator: James Muncy (PoliSpace)

Concourse 1&2

Creating Enabling Infrastructure

Introduction and Session Plan. Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc.)

Power Beaming Metrics. Dr. Paul Jaffe (U.S. Naval Research Laboratory)

Space Solar Power and Ancillary Services Beaming As Enabling Infrastructure. Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc.)

Beamed Power in the Dark (... and without lawyers). Chuck Finley (Air Force Research

Power Distribution Evolution – Path to Frequency Agnostic Systems. Hooman Kazemi (Raytheon)

Benefits of Open Interoperable Architecture for Space Communications. James Schier (NASA)

Power Generation Evolution – Brayton Cycle Heat Engines. Dr. Christopher Morrison (UltraSafe Nuclear Corporation)

Heat to Electricity – Lessons from Earth Based Technology. Dr. Paul Werbos (Independent Researcher)

Space Solar Power Initiative – Results and Paths Forward. Dr. Richard Madonna (California Institute of Technology)

Space Solar Power, ThermoPhotoVoltaic (TPV) Cells, and IR Power Beaming. Dr. Lewis Fraas (JX Crystals)

Demo Expanding Power Distribution Into Infrared. Bert Murray (Lighthouse dev LLC)

Infrared Power Demo. 2nd floor Mezzanine walkway. Bert Murray (Lighthouse dev LLC)

Cavalier (1st floor)

"Where Are We Headed"

Keynote Speaker: Robert Walker, Founder and Chief Executive Officer, MoonWalker Associates, Member of Congress, 1977-1997

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Wednesday, June 5

Space Policy Forum	Afternoon Sessions
1:45 pm	Galaxy (16th floor) Policy Forum on Space Settlement The Human Space Program: A Central Project for Humanity. Frank White (The Overview Effect & The Cosma Hypothesis)
2:00 pm	Potential Government Incentives for Private Funding of Space Settlements. Jason Aspiotis (Finsophy PBC), Rand Simberg (Consultant), Robert Aillon (Leviathan Space Industries LLC). Moderator: Hoyt Davidson (Near Earth, LLC)
2:45 pm	Changes to International Law to Enable Space Settlement Development. Jim Crisafulli (National Space Society Lunar Affairs Subcommittee), Chris Hearsey (OSA Consulting, LLC), Michelle L.D. Hanlon (Air and Space Law at the University of Mississippi School of Law), Dr. Alanna Krolikowski (Missouri University of Science and Technology), Dr. Martin Elvis (Astrophysicist), Dr. Tony Milligan (King's College London). Moderator: Dr. Greg Autry (Southern California Commercial Spaceflight Initiative)
3:45 pm	Break
4:00 pm	Proper Role of Government in Space Settlement Development: Leading the Way or Being a Cheer Leader? Tony DeTora (Former Senior Professional Staff, House Committee on Science, Space, and Technology), Sam Ximenes (Exploration Architecture Corporations), Sean Hadley, Esq. (New Jersey Education Association and Rutgers University), Al Globus (San Jose State University), Nathaniel Snyder (University of Mississippi School of Law). Moderator: Aaron Oesterle (Space Frontier Foundation)
4:45 pm	Policy Leaders' Reaction to Forum Proposals. Sagi Kfir (Space Law Committee, American Bar Association), James Dunstan (Mobius Legal Group, PLLC), James Muncy (PoliSpace). Moderator: Steve Wolfe (SpaceCom)
5:30 pm	Closing Remarks
Space Solar Power	Concourse 1&2
2:00 pm	Meeting Customer Requirements Introduction and Session Plan. Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc.)
2:30 pm	Mining, Refining, and Transport. Daniel Faber (Orbit Fab)
3:00 pm	Immortal Platform Customers. Jay Lewis (Viasat)
3:30 pm	Co-orbiting/Formation Flying with ISS and Other Station Customers. Dr. Seth Potter (Xtraordinary Innovative Space Partnerships, Inc.)
4:00 pm	Surface-to-Surface Customers. Gary Barnhard (Xtraordinary Innovative Space Partnerships, Inc.)
4:30 pm	ISRU/Water & Oxygen Extraction. Brad Blair (MoonRise)
	Space Solar Power for Moon Village. John C. Mankins (Mankins Space Technology, Inc.)
Student Check-in	Cavalier
4:00 pm - 6:00 pm	NSS Space Settlement Contest poster check-in
Student Check-in	Cavalier
5:00 pm - 6:00 pm	NSS Space Settlement Contest presentation check-in
Student Galactic Briefing	Commonwealth Ballroom
6:00 pm - 8:00 pm	Special Guest: Eileen Collins, former NASA Space Shuttle Astronaut