



Engaging Global Space Industry Stakeholders

COSPAR 2022 - 44th Scientific Assembly

July 17, 2022

Dr. Nelson Pedreiro

Chair, COSPAR Committee on Industry Relations

Vice-President, Lockheed Martin Advanced Technology Center

COSPAR Committee on Industry Relations



- The Committee on Industry Relations (CIR) was established in 2021 to implement a key element of COSPAR strategic agenda to
“Engage with and benefit from the interaction with science-based global industry ...”
- The CIR advocates and executes a long-term strategic plan to engage industry in the work of COSPAR
- Serving as an advisory committee to the COSPAR President

Why engage with industry?



COSPAR Committee Industry Relations



Company	CIR Member(s)
Airbus	Helene Boithias, Director, Science Institutional Business
Arianespace	Aaron Lewis, VP Corporate Communications & Government Relations
BAE Systems	Julian Cracknell, Group Chief Technology Officer
Ball Aerospace	Mike Gazarik, VP, Space Systems LaNetra Tate, Director of Technical Engineering Operations
Blue Origin	Steve Squyres, Chief Scientist
Fleet Technologies	Flavia Tata Nardini, CEO and Co-founder
Korean Aerospace Industries (KAI)	Chang Han Lee, Director and Head of Space Business
Northrup Grumman	Steve Krein, Vice President Commercial Civil Programs
Lockheed Martin	Nelson Pedreiro, VP Advanced Technology Center Mary Snitch, BD Principal
Planet Labs	Robbie Schingler, Co-Founder Tanya Harrison, Director, Strategic Science Initiatives
Raytheon Intelligence & Space	Anthony Bush, Sr. Director, Environmental Intelligence and Civil Space
Redwire Space	Mike Gold, EVP Civil Space and External Affairs
Rocket Lab	Peter Beck, Founder/CEO Andrew Bunker, VP Gov. Ops. and Bus. Strategy Morgan Bailey, Dir. Comms.
Thales Alenia Space (France)	Christophe Valorge, CTO
Thales Alenia Space (Italy)	Massimo Comparini, Dep. CEO, SEVP-Observation, Exploration, Navigation
United Launch Alliance	Tory Bruno, CEO John Reed, Chief Technologist, Adv. Programs Brandon Eden, Dir. Washington Ops.
Virgin Galactic	Sirisha Bandla, VP, Government Affairs and Research Operations
Voyager	Eric Stallmer, EVP, Government Affairs and Public Policy

COSPAR CIR Agenda & Business Rhythm



- Define the value proposition for industry engagement in COSPAR
- Formulate recommendations and develop a strategic plan to promote industry engagement in COSPAR
- The Committee meets quarterly and sub-committees as need to discuss and implement specific actions

COSPAR Committee on Industry Relations

Value Proposition Statement



COSPAR provides an untapped opportunity for industry technologists to collaborate with space researchers to bridge scientific discovery with civil and commercial space programs and innovative solutions. Through COSPAR scientific research development and deployment, the capacity and rate of industrial innovation in the global economy is accelerated. The scientific community and industry realize shared value through applying research results to shape solutions-driven program missions. Through Commissions, Panels and Publications, COSPAR informs international stakeholders and decision-makers on space policy, space science and exploration, as well as critical societal topics such as climate change, planetary protection, and space weather.

Strategic Plan for COSPAR Industry Engagement



Bi-Annual Scientific Assembly and Regional Conference

- Include industry developed and led sessions.
- Highlight industry role and partnership in space science missions.
- Institute industry participation at all stages of planning and executing bi-annual Scientific Assembly and Regional Conferences.
- Organize workshops, webinars, forums, and special events that include industry members and key government officials.

Scientific Commissions and Panels

- Appoint industry representatives to selected Scientific Commissions, Panels and Task Groups, such as: policy, space science, climate change.
- Identify opportunities for industry led and/co-led Panels and Task Groups.
- Create Task Groups, working groups/subcommittees led/co-led by industry representatives in areas such as STEM, Young Scientists, etc.

Website, publications and social media

- Feature content from industry in COSPAR website and selected publications highlighting industry and science community partnership
- Create “Industry Corner” for Website and Newsletter: Feature industry-science collaboration opportunities.
- Invite/include industry articles in selected publications.
- Expand COSPAR presence on selected social media channels, *e.g.* LinkedIn

Strategic Plan for COSPAR Industry Engagement (cont.)



Organization structure

- Include industry representation on committees

Communications to Industry

- COSPAR informs industry on interests, priorities and strategic agenda of the global space sciences community.

Implementation

- Identify and engage industry champions across the space science community in implementing the strategic plan.
- CIR will assist in building a roster of industry leaders committed to serve as “COSPAR Stakeholders” that will advocate for industry to engage with COSPAR.

Development Board

- Establish a Development Board responsible for sponsorship outreach supporting all activities of the COSPAR mission
- Establish a COSPAR scholarship, *e.g.* junior scientist program, sponsor attendance to bi-annual Assembly and Regional Conference
- Establish sponsorship for Scientific Assembly event focused on STEM, Diversity & Inclusion
- Leverage industry network to increase/broaden membership

Diversity & Inclusion

- Establish COSPAR Agenda for Diversity and Inclusion
- Promote the distinction of COSPAR as a geographically-diverse organization, open to all scientific experts and leaders
- Leverage Industry Experience in Diversity & Inclusion and industry programs in COSPAR D&I activities

Strategic Plan Implementation



- COSPAR newsletter, Space Research Today, CIR article publication
- COSPAR appointment of volunteer DEI officer: Mary Snitch
- Creation of Industry Corner: NIRCам article by Marcia Rieke & Alison Nordt
- Creation of COSPAR LinkedIn page: Flavia Nardini
- Several CIR led/sponsored activities at COSPAR 44th Scientific Assembly

COSPAR 44th Scientific Assembly



- ***Engaging Global Space Industry Stakeholders*** – CIR Presentation – Sunday, July 17
- ***Webb’s Journey to First Images: Pursuing the Earliest Light in the Universe*** – JWST Panel – Monday, July 18
- ***Enriching Scientific Discovery through Inclusion, Diversity, Equity and Accessibility – IDEA for Today and Tomorrow*** – Workshop – Tuesday, July 19
- ***Industry Hosted Meeting*** – Reception – Tuesday, July 19
- ***Changing Access to Space*** – Panel – Tuesday, July 19
- ***Innovative Solutions*** – Panel – Wednesday, July 20

Path Forward



- Focus on the strategic plan implementation
- Get involved
 - Champion for science/industry engagement
 - Contribute an article to the COSPAR Industry Corner
 - Follow COSPAR on LinkedIn