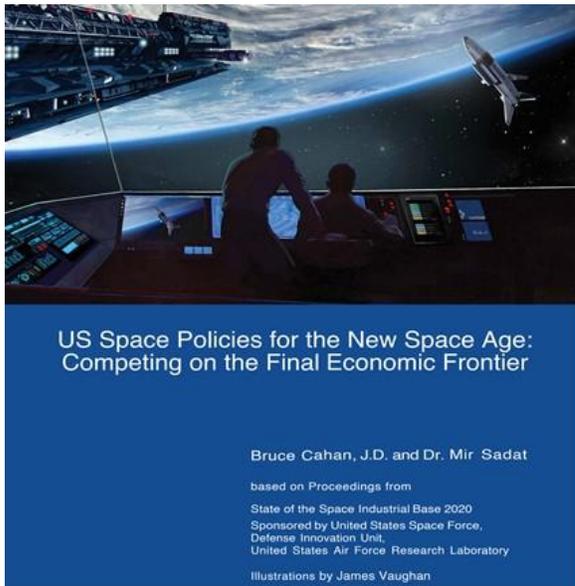


Pragmatic Space Engagements with China for United States, its Allies, and other Partners

Thursday, 11 February 2021, 1:00-3:00 pm EST

Program



NEW SPACE
NEW MEXICO

In support of this report release, NewSpace New Mexico will host five webinars to delve into the substance of this study.

NewSpace New Mexico Webinar
Hosts: Casey Anglada DeRaad and Scott Maethner



Pragmatic Space Engagements with China for United States, its Allies, and other Partners

Thursday, 11 February 2021, 1:00-3:00 pm EST

Moderated by NewSpace New Mexico



Keynote Speakers: Bruce Cahan and Mir Sadat, Authors of U.S. Space Policies for the New Space Age: Competing on the Final Economic Frontier

Roundtable Panelists:



Peter Garretson
Space Policy Consultant



Artem Bondarenko
International Academy of Space Law



Jean-Jacques Tortora
European Space Policy Institute



Chris Fabian
U.S. Space Force



Zhang Ming
Shanghai Academy of Social Sciences



Kenneth Hodgkins
Retired State Department Official



Kevin O'Connell
Former Department of Commerce Official

Pragmatic Space Engagements with China for United States, its Allies, and other Partners

Should the United States and its international Allies and Key Partners, demand that China level the playing field before we engage with them in space exploration and commercial activities? Should Chinese commitments to improve human rights (Uighurs, HK pro-democracy movement and supply chain concerns), restore ecosystem damage, and abide trade treaties be a factor in space collaboration? How do national space economic, scientific and national security goals help the United States and Allied policymakers transparently expose Chinese misbehavior so that China can be trusted as a collaborator? Can the United States credibly engage with Chinese in space, without losing its moral high ground on environmental and human rights and trade policy concerns?

Authors of “Space Policies for the New Space Age: Competing on the Final Economic Frontier”



[Bruce Cahan](#) is a Lecturer in Stanford University’s Management Science and Engineering Department, a Distinguished Scholar at Stanford’s Human-Sciences and Technologies Advanced Research Institute’s mediaX Program, and an active member of CodeX Fellow at Stanford’s Center for Legal Informatics. Bruce co-founded the Sustainable Banking Initiative at Stanford, and teaches Redesigning Finance, Ethics of Finance, Buy-Side Investing and Sustainable Banking at Stanford. As an

Ashoka Fellow and as CEO of Urban Logic, Inc., a NY nonprofit, Bruce researched and leads the effort to create the Space Commodities Exchange as essential “financial engineering” for the New Space Economy. Bruce is licensed as a lawyer in CA, NY and PA, and practiced as a Wall Street lawyer in NYC with the international law firm of Weil Gotshal & Manges. Bruce graduated The Wharton School at the Univ of Pennsylvania (BS Econ & Int’l Business) and Temple Law School (J.D.)



[Mir Sadat](#), Ph.D., recently departed the U.S. National Security Council at the White House, where he led the interagency on defense and space policy issues. In this role, Mir prepared the President, National Security Advisor, and White House Senior Officials on significant civil, commercial, and national security space topics. Mir is also a naval officer with intelligence and space qualifications and in his preceding two naval assignments, he served as a Space Policy Strategist with

Chief of Naval Operations and a Space Operations Officer with U.S. Tenth Fleet. Mir has a PhD from Claremont Graduate University and has taught at various universities in California and in Washington, DC. Prior to joining the government, Mir spent 10 years in various capacities at Lockheed Martin, Northrop Grumman, and Raytheon.

Agenda

NewSpace New Mexico Welcome: Casey Anglada DeRaad
Introduction Webinar & Report: Bruce Cahan & Mir Sadat, Authors

Keynote:

Roundtable Panelists:

- Peter Garretson Apogee
- Artem Bondarenko International Academy of Space Law
- Jean-Jacques Tortura European Space Policy Institute
- Chris Fabian U.S. Space Force
- Zhang Ming Shanghai Academy of Social Sciences
- Kenneth Hodgkins Retired State Department Official
- Kevin O'Connell Former Department of Commerce Official
- Moderator: Casey Anglada DeRaad, NewSpace New Mexico

Q&A – Led by Scott Maethner, NewSpace New Mexico

Wrap Up and Report Overview – Bruce Cahan & Mir Sadat

Speaker Information:



Dr. Artem V. Bondarenko, President & Chair of the Board of Directors, International Academy of Space Law (IASL)

Dr. Artem V. Bondarenko, Ph.D., Assoc. Prof., MSc in Space Governance, is the Founding President and Chairman of the Board of Directors of the International Academy of Space Law (IASL) headquartered in Moscow, Russia. He is a graduate of the Foreign Military Information College at the Military University under the Ministry of Defense of the Russian Federation and the Institute of Space Technologies at the Peoples' Friendship University (RUDN) with postdoctoral studies for corporate law. In 1999 he received his first commission as a liaison officer of the 76th Guards Air Assault Division at Camp Monteith in the Kosovo Force (KFOR). Upon completion of his mission, he was awarded the NATO Medal for his excellence of the liaising in joint peacekeeping operations and building camaraderie across the Multinational Brigade East AOR. Col. Artem V. Bondarenko then became the chief ideologist, principal designer, and first commander of the Russian MOD Linguistic Center,

an analog of the United States Defense Language Institute Foreign Language Center (DLIFLC) at the Presidio of Monterey, California. He retired from the Public Service in 2017 after spending 23 years on active duty. Dr. Artem V. Bondarenko, a war veteran, has become an integral part of international formation protecting human rights and democracy, the rule of law, and the sustainable development of humankind. His scientific interests center on sustainable economic and human development and are based on the 2E paradigm he once authored when postulating the interdependability and common fate of humankind. The author of the 2E paradigm, he truly believes the Existential Entanglement of peoples and nations around the world is a must-think-about prerequisite of any act of diplomacy, political or military action. Dr. Artem V. Bondarenko actively participates in UN COPUOS, IADC, ISO, and other international space fora. He co-moderated the First United Nations International Conference on Space Policy and Law in Moscow, September 2018, after which he came up with a proposal to establish a global center of excellence (R&D and education) in space law as an international non-profit, non-governmental organization providing unbiased expertise and promoting international cooperation in the peaceful uses of outer space by strengthening overall capacity in global space governance (vision, policy, and law). Dr. Bondarenko is Assistant Senator of the Russian Federation and Chairman of the Permanent Working Group of Experts at the Russian State Duma (House of Representatives) Defense Committee (pro bono).



Chris Fabian, Captain, U.S. Space Force

Captain Christopher D Fabian, USSF, is currently a Crew Commander in the 3rd Space Operations Squadron. He supports the Delta 9 mission to conduct protect and defend operations from space and provide response options to deter and defeat adversary threats in space. Capt Fabian earned his commission through the U.S. Air Force Academy in 2013. He has served across multiple Space Force major warfighting functions including space battle management and orbital warfare. In doing so, he gained experience in space situational awareness, satellite command and control, and missile warning. Capt Fabian has served as an instructor, evaluator, flight commander, and assistant operations officer.



Peter Garretson, Independent Strategy & Policy Consultant

Peter Garretson is an independent strategy and policy consultant and a Senior Fellow in Defense Studies at the American Foreign Policy Council. He was previously a transformational strategist for the USAF and an instructor at Air University's Air Command and Staff College where he leads the Space Horizons Research Task Force. He is currently writing a book on great power competition for space resources. He was previously Division Chief of Irregular Strategy, Plans and Policy, where his focus was on how the United States can enhance the legitimacy of partner nations through a whole-of-nation concept called Aviation Enterprise Development (AED), and proactively shape the peacetime Air Domain to deliver positive foreign policy, security, and economic outcomes for the United States and its partners. He has previously served as an Airpower strategist and strategic policy advisor to the Chief of Staff of the Air Force on his Strategic Studies Group, and four years as the Chief of Future Technology for HQ USAF Strategic Planning. He was the first serving US officer to serve as a visiting fellow at India's premier strategic think tank, the Institute for Defense Studies and Analysis (IDSA) as a Council on Foreign Relations (CFR) international affairs fellow. Lt Col Garretson is a former DARPA service chief's intern, Los Alamos National Lab service academy research associate, senior pilot, and winner of the NSS Space Pioneer Award. Lt Col Garretson helped architect the Air Force Future Wargame Series from 2005-2009, as well as conceiving and executing the first-ever multi-agency deflection and disaster exercise and the first US-UK-France Trilateral strategic workshops. He was a collaborator in a number of strategic documents, including the 2011 National Military Strategy (NMS), the NSSO Study, the UAS Flight Plan, the Air Force Vision for Learning, Air Force Energy Horizons, DARPA 100 Year Starship, and was the initiator of the Air Force Strategic Environmental Assessment, Air Force Futures Group and Blue Horizons Program.



Kenneth Hodgkins, Retired State Department Official

Kenneth Hodgkins has 40 years of US Government experience in international space law and policy. He is a lead negotiator on major bilateral and multilateral cooperation on long-term sustainability of space activities, transparency and predictability for space operations, space exploration, nuclear power sources in space, global navigation satellites, and remote sensing. He was a U.S. Representative to the UN Outer Space Committee. He specializes in international and domestic

frameworks for new space commercial ventures under international space law and advocates for transparency and predictability in space operations, long-term sustainability of space, an international architecture supportive of new commercial space ventures, and collaboration on space exploration beyond low-Earth orbit.



Dr. Zhang Ming, Research Professor, Institute of International Relations

Dr. Zhang Ming is a Research Professor of The Institute of International Relations (IIR) at Shanghai Academy of Social Sciences. In 2012, Dr. Ming was a Visiting Scholar in the Space Policy Institute at George Washington University. Dr. Ming earned a Ph.D. from Fudan University in 2005. Dr.

Ming is a keen observer and has published on various global space developments analyzed through the lens of international relations.



Kevin O'Connell, Former Director of the Office of Space Commerce at the U.S. Department of Commerce

Kevin M. O'Connell was formerly the Director of the Office of Space Commerce at the U.S. Department of Commerce. He led an office with responsibility as a space industry advocate within the Executive Branch of the U.S. government. Mr. O'Connell brings over 35 years of experience in the U.S. government, in research organizations, and as an entrepreneur and business leader to this position. Mr. O'Connell has researched and

written extensively on the policy, security, and global market issues related to commercialization of remote sensing. Mr. O'Connell's background also includes extensive experience in national security and intelligence matters, including assignments in the Department of Defense, Department of State, National Security Council, and the Office of the Vice President.



Jean-Jacques Tortora, Director of the European Space Policy Institute

Jean-Jaxques has served as Director of the European Space Policy Institute in Vienna, Austria Since June 2016. Between 2007 - 2016, Served as the Secretary General of ASD-Eurospace. From 2004 to 2007, served as Head of the French Space Agency (CNES) office in North America and

Attaché for Space and Aeronautics at the Embassy of France in Washington, D.C. From 2001 to 2004, served as Deputy Director for Strategy and Programs, responsible for the Industrial Strategy of CNES, the French Space Agency. 1998 – 2000. Adviser to the French Ministry of Research for Industrial Policy Funds management, aiming at support to competitiveness support and new space applications and services development and promotion. 1996 – 1998 Appointed by Arianespace in Evry, France, to lead a risk mitigation and cost reduction plan covering to the end of operational life of the Ariane 4 launcher. 1990 – 1996 Mr. Tortora was based in Kourou, French Guiana, as Head of Arianespace Operations Quality Department. There, he led the Quality Management of the Ariane 4 launchers final integration and of the launch pad operations and maintenance. He supervised the industrialization and the implementation of the associated control plans. Mr. Tortora started his career in 1984 at the French military procurement agency, DGA, as a naval weapons integration and test engineer, expert in signal processing and warships acoustic discretion.



Casey Anglada DeRaad, Chief Executive Officer and Founder, NewSpace New Mexico

Casey Anglada DeRaad is CEO and Founder of NewSpace New Mexico, a non-profit established to grow the commercial space industry from New Mexico for the nation and to create a bigger voice to NM's space industry stakeholders from industry, Air Force, the national labs, and local, state, and federal organizations. Casey is an energetic builder of partnerships and growth strategies to help all stakeholders succeed. She has over 30 years of leadership experience in space technology, business development, investment leveraging, technology engagement/transfer, strategic planning, workforce development, and portfolio investment for Air Force, NASA and private industry. Casey has promoted opportunities for New Mexico students and industries for her entire career. Casey has her Master's in EE from UNM.



Scott Maethner, Strategy & Operations Lead, NewSpace New Mexico

Scott Maethner (Colonel, USAF Retired) is a results-oriented leader who helps people and organizations reach their full potential. He has over 29 years of experience in the areas of science & technology, space research & operations, program management, strategy & policy development, strategic planning, studies & analysis, corporate communications, sales, marketing, and talent acquisition.