

4th Annual USSPACECOM LEGAL CONFERENCE

Space Futures: The Legal Implications of Space Operations in GEO and Beyond



5 - 7 March 2024

United States Air Force Academy, Colorado



LAW, TECHNOLOGY, AND WARFARE RESEARCH CELL





United States Space Command Legal Conference

*Space Futures: The Legal Implications of
Space Operations in GEO and Beyond*

5-7 March 2024



05 March 2024 (Day 1) – Opening Remarks

Brigadier General Linell Letendre Dean of the Faculty, U.S. Air Force Academy

Brigadier General Linell A. Letendre is Dean of the Faculty, U.S. Air Force Academy, Colorado Springs, Colorado. She commands the 750-member Dean of Faculty mission element and oversees the annual design and instruction of more than 500 undergraduate courses for 4,000 cadets across 32 academic disciplines. She also directs the operation of five support staff agencies and faculty resources involving more than \$350 million.

The general graduated from the U.S. Air Force Academy in 1996 as a distinguished graduate with a Bachelor of Science degree in Astronautical Engineering. After serving as an Acquisition Officer, she became a Judge Advocate through the Funded Legal Education Program. Brig Gen Letendre graduated from the University of Washington Law School with high honors and was named to the Order of the Coif and the Order of the Barristers. She is barred at the U.S. Supreme Court, the Supreme Court of Washington, the U.S. Court of Appeals for the Armed Forces and the Air Force Court of Criminal Appeals. Prior to this assignment, she served as the Permanent Professor and Head of the Air Force Academy's Department of Law.



Colonel Robert (“Bobby”) Hall Staff Judge Advocate, United States Space Command



Colonel Robert “Bobby” Hall is the Staff Judge Advocate for United States Space Command, the Unified Combatant Command responsible for conducting operations in, from, and to space to deter conflict, and if necessary, defeat aggression, deliver space combat power for the Joint/Combined force, and defend U.S. vital interests with allies and partners.

Originally from St. Petersburg, Florida, Colonel Hall worked in private industry as an electrical engineer prior to attending law school at the University of North Carolina at Chapel Hill, where he served as Editor-in-Chief of the North Carolina Journal of International Law and Commercial Regulation. Colonel Hall became a commissioned officer by direct appointment after his admission to the North Carolina Bar in 1997. After entering the Air Force, he served as trial and defense counsel, as well as chief of military justice at the wing and numbered air force levels. Colonel Hall also deployed as a joint task force deputy staff judge advocate and served in the air and space operations centers of two geographic combatant commands. Additionally, he served staff judge advocate tours at the major command, numbered air force, wing, and group levels in the U.S., Europe, and Middle East. Prior to his current position, Colonel Hall was the Staff Judge Advocate for Air Force Global Strike Command, advising the major command responsible for U.S. Air Force bomber, intercontinental ballistic missile, and nuclear command, control, and communications forces.



05 March 2024 (Day 1)

Keynote: The Practice of Law in the National Security Space Enterprise

Honorable Caroline Krass
General Counsel, United States Department of Defense

As General Counsel, Ms. Krass serves as the chief legal officer of the Department and the principal legal advisor to the Secretary of Defense. Ms. Krass has authority and responsibility for legal policy and determinations across the Department of Defense and its components. She also serves as the Director of the Defense Legal Services Agency, which is comprised of the legal staffs assigned to the Defense Agencies and Department of Defense Field Activities.

Ms. Krass was previously the Senior Vice President & General Counsel, General Insurance and Deputy General Counsel of American International Group (AIG), where she led a global legal team supporting the primary business unit, as well as the cybersecurity and privacy, technology and innovation teams across AIG. Before that, she was a partner and Chair of the National Security Practice Group at Gibson Dunn.



Ms. Krass served for more than two decades in the federal government, including thirteen years in the Department of Justice, primarily as a career lawyer in the Office of Legal Counsel (OLC) and as a Special Assistant U.S. Attorney within the National Security Section at the U.S. Attorney's Office for the District of Columbia. In 2009, Ms. Krass was appointed Special Assistant and Special Counsel for National Security Affairs to President Obama and Deputy Legal Adviser to the National Security Council (NSC), where she advised officials on a range of legal issues related to national security and foreign policy. In 2011, Ms. Krass returned to OLC and served as Acting Assistant Attorney General, advising the President, Attorney General and other Executive Branch leaders on complex questions of constitutional and statutory law. In 2014, Ms. Krass was the first woman to be confirmed by the United States Senate as General Counsel of the Central Intelligence Agency, where she served as the chief legal officer and primary legal advisor to the Director until 2017.

Earlier in her career, Ms. Krass served as Deputy Legal Adviser to the NSC, as Special Assistant to the General Counsel of the Department of the Treasury, and as a lawyer at the Department of State. Ms. Krass clerked for the Honorable Patricia M. Wald on the U.S. Court of Appeals for the D.C. Circuit. She graduated Phi Beta Kappa from Stanford University and received her J.D. from Yale Law School.

Ms. Krass currently serves on ABA Standing Committee on Law and National Security. She has received multiple awards and honors, including the CIA Distinguished Intelligence Medal and CIA Director's Award, the John Marshall Award -- the highest Department of Justice Award for an attorney, and the Department of Defense Medal for Outstanding Service, as well as the Department of State Superior Honor Award.



05 March 2024 (Day 1)
Kickoff Lightning Talk

Archit Kalra
Yale University

Archit is a first-year undergraduate studying physics and neuroscience at Yale. On campus, he is involved in space policy research with the Yale Undergraduate Aerospace Association and the Space Domain Awareness TAP Lab, as well as analysis of AI companies for the venture capital firm Glasswing Ventures. Archit is an affiliate member of the NASA Nexus for Exoplanet System Science and is actively interested in using new technologies to help make space accessible for everyone.





05 March 2024 (Day 1) – Panel 1: The Future of Normative International Law & Space Governance: The Artemis Accords and the Woomera Manual

Moderator: Major Matthew Ormsbee **Assistant Professor of Law, United States Air Force Academy**

Major Matthew H. Ormsbee is an Assistant Professor at the Department of Law (DFL), United States Air Force Academy. The DFL team consists of 20 faculty and staff who engage in the design and teaching of 19 core and elective law courses, in scholarship across a variety of disciplines, in the legal support to the administration of the Cadet Honor System, and in the development of officers of character for the U.S. Air Force and Space Force. Maj Ormsbee received a direct commission as an Air Force judge advocate in November 2016 and entered active duty in January 2017. He completed Commissioned Officer Training in February 2017 and the Judge Advocate Staff Officer Course in April 2017. He served as an Assistant Staff Judge Advocate at Nellis AFB and Creech AFB, Nevada. Thereafter, he was the Chief of Adverse Actions and Operational Law, and later the Area Defense Counsel at Misawa Air Base, Japan. Most recently, he earned an LL.M. degree in air and space law at the Institute of Air and Space Law, McGill University, in Montreal, Canada.



Mr. Jeremy Weinberg **U.S. Department of State, Office of Legal Adviser**

Jeremy Weinberg has been an Attorney-Adviser in the Office of the Legal Adviser at the U.S. Department of State since 2006 and currently covers outer space security topics along with marine and air pollution. Among his other favorite portfolios have been legal issues relating to the European Union and the Balkans, privacy, international trade and intellectual property, and citizenship and consular affairs. He entered federal practice after earning his J.D. at the University of Virginia School of Law, where he served as Submissions Review Editor of the Virginia Journal of International Law (VJIL). Before law school, he was a journalist for the Moscow Times newspaper in Russia and a member of the Goldman Sachs investment research department in London and New York. He graduated from Yale University in 1992 with a B.A. in History and from the London School of Economics in 1994 with an M.Sc. in International History, focusing on European integration. He is a member of the Editorial Advisory Committee for International Legal Materials, published by the American Society of International Law, and has taught a seminar on European Union Law as an adjunct professor at Georgetown and George Mason law schools. He has particular interest in federal agency knowledge management capabilities and Microsoft 365.



05 March 2024 (Day 1) – Panel 1: The Future of Normative International Law & Space Governance: The Artemis Accords and the Woomera Manual

Professor Jack M. Beard

Scott K. Ginsburg Professor of Law, Georgetown University Law Center

Professor Jack Beard joined the law faculty in 2011. Before coming to Nebraska, he was a member of the faculty at the UCLA School of Law. He previously served for fourteen years as the Associate Deputy General Counsel (International Affairs) in the Department of Defense where he was responsible for a variety of legal matters related to arms control agreements, defense cooperation and basing agreements in the Middle East region, and programs assisting states of the former Soviet Union in dismantlement of weapons of mass destruction (WMDs) and other nonproliferation activities. These latter activities included the removal of nuclear weapons from Belarus, Kazakhstan and Ukraine and the elimination of other WMDs and related infrastructure in those countries. He served as the senior lawyer on numerous U.S. delegations negotiating international agreements on a wide range of U.S. military operations and activities. He also served on active and reserve duty as an officer in the U.S. Army Judge Advocate General's Corps, where his assignments included Chief of the International Law Section, International and Operational Law Division, Office of The Judge Advocate General of the Army. He is a Lieutenant Colonel in U.S. Army JAG Corps (Retired).



Professor Beard is a Director of the Space, Cyber, and National Security Law Program, teaching courses in International Cyber Security and National Security Space Law. He also teaches courses in National Security Law, Arms Control, and Human Rights & International Criminal Law. His primary research interests focus on public international law and national security law, with a particular emphasis upon space law and military uses of space, cyber capabilities, arms control, the law of armed conflict, and the international legal implications of modern military technologies. He was recognized as a Cyber Security & Data Privacy Trailblazer by the National Law Journal. Professor Beard is the Editor-in-Chief of the Woomera Manual on the International Law of Military Space Activities and Operations (Oxford University Publishing, forthcoming 2023).



Ms. Almudena Azcárate Ortega

Space Security & Weapons of Mass Destruction Researcher, United Nations Institute for Disarmament Research

Almudena Azcárate Ortega is a Space Security Researcher at the United Nations Institute for Disarmament Research (UNIDIR). She has published widely and briefed UN Member States on the topics of space security law and policy and has presented her research in multiple fora. She has led UNIDIR's participation in the UN Open-Ended Working Group on Reducing Space Threats Through Norms, Rules and Principles of Responsible Behaviour, established pursuant to UN General Assembly resolution 76/231. Prior to joining UNIDIR, Almudena was a Research Assistant at Georgetown University Law Center, where she is currently a doctoral candidate. She holds an LL.M. in National Security Law from the same institution, where she was the recipient of Georgetown's Thomas Bradbury Chetwood, S.J. Prize for the most distinguished academic performance in the program. She received her LL.B. from the University of Navarra, Spain. She speaks English, Spanish, French and German.



05 March 2024 (Day 1) – Panel 1: The Future of Normative International Law & Space Governance: The Artemis Accords and the Woomera Manual

Mr. Gabriel Swiney

Director of Space Policy, Office of Space Commerce, Department of Commerce

Gabriel Swiney is the Director of the Office of Space Commerce’s Policy, Advocacy, and International Division. He comes to OSC from NASA, where he was a Senior Policy Advisor in the Office of Technology, Policy, and Strategy. While at NASA, he worked on norms of behavior, legal policy, and the interagency authorization and supervision effort. Prior to NASA, Mr. Swiney was an Attorney Adviser in the State Department’s legal bureau. He led the international space law portfolio at State and the U.S. delegation to the COPUOS Legal Subcommittee. Mr. Swiney was one of the creators of the Artemis Accords and has participated in the negotiation dozens of space cooperation arrangements. Before focusing on space issues, Mr. Swiney worked on the use of force, sanctions, and Africa legal issues at State. He holds law degrees from Harvard and Oxford, has taught space policy and law at Harvard Law School, and has published on a range of issues.





05 March 2024 (Day 1) – Kickoff Lightning Talk: USAFA Falcon Sat Program and Satellite Propulsion Systems



Cadet Jeremy Chen, Astrophysics U.S. Air Force Academy, Colorado Springs

Jeremy Chen was born and raised in Albuquerque, New Mexico, and attributes his passion for space and research to growing up near Sandia National Labs. He is currently a member of Cadet Squadron 12 (Keep it Dirty!) and is majoring in Astronautical Engineering, with one minor in Chinese and another in Nuclear Weapons and Strategy. He is also a member of the Cadet Space Operations Squadron and a FalconSAT crew commander. Jeremy will commission into the Space Force as a Developmental Engineer, with his first assignment after graduate school slated for the National Reconnaissance Office. He intends to research the responsible management and surveillance of cislunar space and hopes that in his career with the Space Force he is able to serve as a conduit between the military and civilian worlds, as he believes the fight in space can only be successful with integration and cooperation between the two.

05 March 2024 (Day 1) – Panel 2: Mitigating Congestion and Space Debris: The Interagency Guidelines and Beyond

Moderator: Ms. Laura Winter

The Uplink

Laura Winter, an award-winning journalist, is the Editor and Host of The DownLink Podcast, a Defense & Aerospace Report production. Focused on the intersection of space, the space business, and defense, The DownLink Podcast is a 2023 Defense Media Award winner. Laura has lived in and reported from eight countries on three continents, including nine years in Afghanistan and Iraq. The very first beat she ever had was covering the city of La Cañada Flintridge, which included NASA's Jet Propulsion Laboratory, for the Glendale News-Press.



Ms. Laura Megan-Posch Assistant Chief Counsel for Regulations, Federal Aviation Administration

Laura J. Megan-Posch is the Federal Aviation Administration's (FAA) Assistant Chief Counsel for Regulations in the Office of the Chief Counsel. In this role, Ms. Megan-Posch is responsible for leading and managing both the long-term operation and the immediate daily operation of the Regulations Division and overseeing the complex and diverse legal regulatory practice portfolio. She provides oversight of all legal aspects pertaining to the FAA's regulatory program. The multidisciplinary legal portfolio encompasses a broad range of agency activity pertaining to airworthiness and certification, operations, air traffic procedures, flight standards subjects, and commercial space law. Prior to holding this position, Ms. Megan-Posch served as the Assistant Deputy General Counsel, Office of the Air Force General Counsel, Fiscal, Ethics & Administrative Law Division. There she was responsible for providing advice to Secretariat, Air Staff, Space Staff, and Major Command-level officials on a variety of issues, including administrative and information laws, standards of conduct, employment law, support agreements, fiscal matters, legislation, and organizational issues. She had worked with this Division since 2011.



05 March 2024 (Day 1) – Panel 2: Mitigating Congestion and Space Debris: The Interagency Guidelines and Beyond

Mr. Charles Stotler

Director of the LL.M. Program in Air and Space Law, University of Mississippi

Charles Stotler is a Director of the LL.M. Program in Air and Space Law. He teaches courses on air and space law, serves as faculty advisor to students participating in the Manfred Lachs Space Law Moot Court Competition and advises students on LL.M. theses. His research focuses on the effects of the fragmentation of international law on aerospace governance and on rule of law for outer space activities. Mr. Stotler also advises a broad array of clients on law, policy and regulatory issues, both independently as well as in support of the work of Aviation Advocacy, a Swiss-based consultancy. He focuses on activities and technologies that push policy and regulatory boundaries, such as novel uses of unmanned aircraft systems and space applications. Prior to joining the faculty at Ole Miss, Mr. Stotler worked for the LA City Attorney's Office, representing Los Angeles World Airports. He interned with Aerospace Industries Association, the UN Counter-Terrorism Executive Director and the UN Office for Outer Space Affairs. He was a Program Officer and Mirzayan Science and Technology Policy Graduate Fellow with the U.S. National Academies' Committee on Science, Technology and Law, where he worked on space policy issues. He also served as the Co-chair American Society of International Law's Space Law Interest Group.



Mr. Gabriel Swiney

Director of Policy, Advocacy, and International Division, Office of Space Commerce, Department of Commerce

Gabriel Swiney is the Director of the Office of Space Commerce's Policy, Advocacy, and International Division. He comes to OSC from NASA, where he was a Senior Policy Advisor in the Office of Technology, Policy, and Strategy. While at NASA, he worked on norms of behavior, legal policy, and the interagency authorization and supervision effort. Prior to NASA, Mr. Swiney was an Attorney Adviser in the State Department's legal bureau. He led the international space law portfolio at State and the U.S. delegation to the COPUOS Legal Subcommittee. Mr. Swiney was one of the creators of the Artemis Accords and has participated in the negotiation dozens of space cooperation arrangements. Before focusing on space issues, Mr. Swiney worked on the use of force, sanctions, and Africa legal issues at State. He holds law degrees from Harvard and Oxford, has taught space policy and law at Harvard Law School, and has published on a range of issue.



05 March 2024 (Day 1) – Panel 2: Mitigating Congestion and Space Debris: The Interagency Guidelines and Beyond

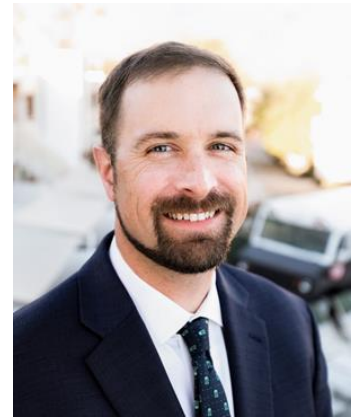


Ms. Lee Steinke
Chief Operating Officer, CisLunar Industries

Lee Steinke is Chief Operating Officer at CisLunar Industries and an aerospace and energy advisor. She has performed in executive roles on contracts for NASA, AFRL, Space Force, DIU, DARPA, and commercial customers and also serves on aerospace Advisory and Review Boards. As a partner to Space Force and NewSpace Nexus, she led the Space Futures Workshop with Industry to explore national-security implications of commercial views on space development. Prior to working in aerospace and defense, she served as an executive and licensed professional scientist in the energy industry. Lee is well published on technical topics and is a sought-after speaker who was recently featured on the TEDx stage. She holds an MBA from Wharton, an MS from Yale, and a BA with Distinction from UNC-Chapel Hill and is an alumna of the U.S. Army War College National Security Seminar.

Mr. Victor Gardner
President, LeoLabs Federal

Vic Gardner leads U.S. Federal strategy and business operations as President of LeoLabs Federal, Inc. In addition, he leads global customer engagement for LeoLabs future growth as the Global Head of PreSales. Vic has over 15 years of experience architecting solutions for the U.S. DoD and intelligence community including integration, test, deployment, and operations of the National Space Defense Center (NSDC) Commercial Space Situational Awareness (SSA) architecture while at his previous employer Applied Defense Solutions (acquired by L3Harris). He has also held operational and management positions at Aerospace Corp., Kratos, and Northrop Grumman. Vic has a Bachelor of Science in Aerospace Engineering from the University of Maryland and a Master of Science in Astronautical Engineering from the University of Southern California.





05 March 2024 (Day 1) – Panel 3: National Security Space Strategies and the Rise of Space Warfare

Moderator: Major Jonathan Sawmiller Chief of Operations Law, United States Space Command

Maj Sawmiller is the Chief of Operations Law, Office of the Staff Judge Advocate, United States Space Command, Peterson SFB, Colorado. Maj Sawmiller is responsible for advising a four-star combatant commander, his staff, and joint operations center on compliance with international and domestic law and policy for global space operations, activities, and missions. Maj Sawmiller enlisted in the Idaho Air National Guard in 2005, where he specialized in CBRN defense. While enlisted, he deployed twice, operating CBRN detection networks and searching for WMDs in Iraq. During law school, Maj Sawmiller was a Law Review editor, interned for the U.S. Army JAG Corps, and worked as a limited license prosecutor in Ada County, Idaho. He also worked as a DOD contractor administering the Navy-Marine Corps Intranet, and clerked for the Honorable Daniel Eismann, Chief Justice of the Idaho Supreme Court. Maj Sawmiller transferred to the Regular Air Force and received a direct commission as a Judge Advocate in December 2011. He is admitted to practice law before the Supreme Court of Idaho and the United States Court of Appeals for the Armed Forces. Prior to his current assignment, Maj Sawmiller served in a variety of judge advocate roles, including Area Defense Counsel, Rule of Law Advisor, Cyberspace Operations Legal Advisor, and Deputy Staff Judge Advocate of an F-15E fighter wing.



Colonel Matthew T. King Chief of Space Law, Headquarters Air Force, Office of the Judge Advocate General, Headquarters Air Force

Colonel Matt King is the Chief of Space Law, Headquarters Air Force, Office of the Judge Advocate General, Pentagon, Washington, D.C. His Division serves as the primary liaison to the Chief of Space Operations and Space Staff, and advises the Air Force and Space Force on current and future space operations, international law, command and doctrine, and Total Force matters. Colonel King previously served as the Deputy Legal Counsel and Chief of International and Administrative Law, Office of the Chairman of the Joint Chiefs of Staff; Staff Judge Advocate for the 30th Space Wing at Vandenberg AFB; Air Staff attorney (Operations and International Law); Appellate Defense Counsel, representing clients before the AF Court of Criminal Appeals, Court of Appeals for the Armed Forces, and United States Supreme Court; Deputy Staff Judge Advocate at Little Rock AFB, supporting two wing commanders (AMC and AETC); Assistant Professor of Law at the US Air Force Academy, teaching LOAC, Advanced LOAC, International Law, and Law for Air Force Officers, and serving as the Department of Law and Division of Social Sciences Executive Officer; Area Defense Counsel at Ramstein AB, Germany; Assistant Chief of Military Justice at Ramstein AB; and Assistant Staff Judge Advocate at Sheppard AFB. Colonel King has deployed as the Deputy Legal Advisor (LEGAD) to the AFCENT Combined Air Operations Center (CAOC) at Al Udeid AB, Qatar; LEGAD to the NATO Commander of Kandahar Airfield, Afghanistan (COMKAF); and Deputy LEGAD to the NATO Headquarters in Sarajevo, Bosnia-Herzegovina (NHQ-Sa).



05 March 2024 (Day 1) – Panel 3: National Security Space Strategies and the Rise of Space Lawfare

Dr. Jill Goldenziel **Professor, College of Information and Cyberspace, National Defense University**

Dr. Jill Goldenziel is a Professor at the National Defense University’s College of Information and Cyberspace. She is also a non-resident Fellow at NATO SHAPE/ACO Office of Legal Affairs and an Affiliated Scholar at the University of Pennsylvania’s Fox Leadership International Program and Penn’s Partnership for Effective Public Administration and Leadership Ethics. Dr. Goldenziel was previously a Professor at U.S. Marine Corps University-Command and Staff College, a Climenko Fellow and Lecturer on Law at Harvard Law School, a Research Fellow at the Harvard Kennedy School’s Belfer Center for Science and International Affairs, a Lecturer on Government and Social Studies at Harvard College, and a Visiting Assistant Professor at the Boston University School of Law. She clerked for Judge Thomas Buerghenthal (Ret., International Court of Justice) and Prof. William W. Park on ICSID investor-state international arbitration tribunals. She has been a Visiting Scholar at iCourts at the University of Copenhagen and a Scholar-in-Residence at the International Arbitration practice of WilmerHale in London. Dr. Goldenziel holds a Ph.D. and an A.M. in Government from Harvard University, a J.D. from the New York University School of Law, and an A.B. from Princeton University.



Mr. Dean Cheng **Senior Advisor, China Program**



Dean Cheng is a senior advisor to the China program at the U.S. Institute of Peace. He joined USIP from The Heritage Foundation, where he spent over a decade as a senior research fellow on Chinese political and security affairs. He has written extensively on China’s military doctrine, the technological implications of its space program and “dual use” issues associated with China’s industrial and scientific infrastructure. Before joining The Heritage Foundation, Cheng worked at Science Applications International Corporation and the China studies division of the Center for Naval Analyses, a federally funded research institute. He also served as an analyst for the international security and space program at the Office of Technology Assessment, a congressional agency, with particular expertise on China’s defense-industrial complex. Cheng has testified many times before U.S. House and Senate

committees on various aspects of Chinese security. He has appeared on public affairs shows such as “John McLaughlin’s One on One” and C-SPAN, as well as programs on NPR, CNN International, BBC World Service and International Television News. He has been interviewed by or provided commentary for publications such as Time magazine, The Washington Post, Financial Times, Bloomberg News, Jane’s Defence Weekly, South Korea’s Chosun Ilbo, and Hong Kong’s South China Morning Post, and is the author of “Cyber Dragon,” an examination of Chinese information and cyber activities. He has also spoken at the National Space Symposium, National Defense University, the Air Force Academy, MIT and the Eisenhower Center for Space and Defense Studies.



05 March 2024 (Day 1) – Panel 3: National Security Space Strategies and the Rise of Space Lawfare

Ms. Jessica S. Tok Space Policy Analyst, U.S. Department of Defense, Office of the Under Secretary of Defense for Policy



Jessica Tok is a civilian space policy analyst in the Office of the Secretary of Defense, which develops policy guidance, provides advice, and oversees planning, development, and operational implementation across the Department of Defense. Her portfolio includes international affairs and multilateral governance, which includes serving as a U.S. delegate to the United Nations. Ms. Tok obtained her Biological Science (B.S.), Law (J.D.), and Masters of Law in Space and Telecommunication (LL.M.), at the University of Nebraska, and worked for multiple governmental organizations, including the U.S. Strategic Command, U.S. Army, U.S. Air Force, and the U.S. District Court of Nebraska before joining OSD Policy. She is admitted to practice law in the State of Nebraska and resides in Washington, D.C.





05 March 2024 (Day 1) – Lecture: Contemporary Developments in International Space Law

Dr. Frans von der Dunk Harvey & Susan Perlman Alumni and Othmer Professor of Space Law, Nebraska College of Law



Prof. Von der Dunk was awarded the Distinguished Service Award of the International Institute of Space Law (IISL) of the International Astronautical Federation (IAF) in Vancouver, in October 2004, the Social Science Award of the International Academy of Astronautics (IAA) in Valencia, in October 2006, and the 2015 Social Science Book Award, International Academy of Astronautics (IAA), for the Handbook of Space Law, Jerusalem, October 2015. In the summer of 2008, he was nominated, as the first lawyer ever, Member of the European Space Sciences Committee (ESSC) of the European Space Foundation (ESF). Also, he was the sole lawyer on the Panel on Asteroid Threat Mitigation established by the Association of Space Explorers (ASE) in 2007.

Prof. Von der Dunk has served as adviser to the Dutch Government, several foreign Governments, the European Commission, the European Space Agency (ESA), the United Nations (UN), the Organisation for Economic Co-operation and Development (OECD), the Dutch National Aerospace Agency (NIVR), the Japanese Space Exploration Agency (JAXA), the German Space Agency (DLR), the Brazilian Space Agency (AEB), the Swedish Space Corporation (SSC), the United Arab Emirates Space Agency (UAESA), the Saudi Space Agency (SSA) and the Centre for Strategic and International Studies (CSIS), as well as a number of companies, and was member of the Advisory Group to the Permanent Court of Arbitration (PCA) on the drafting of Optional Rules for Arbitration of Disputes relating to Outer Space. Such advisory work dealt with a broad area of issues related to space activities, such as space policy, international cooperation in space, national space law, privatisation of space activities, Global Navigation Satellite Systems (GNSS) (in particular Galileo), satellite communications, radio astronomy, and earth observation. Also, he has acted as the Legal Task Manager in a number of studies undertaken in particular within the context of leading European Commission projects, such as on European space policy, Galileo and GNSS, satellite communications, the Copernicus project and earth observation. Much of his recent work furthermore focused on such topical issues as space tourism, the legal status of the Moon and other celestial bodies and the 'sale-of- lunar-estate hoax', and planetary protection.

He is Director Public Relations of the International Institute of Space Law (IISL), and Member for the Netherlands in the International Law Association's (ILA) Committee on Space Law. He is also Member of the International Editorial Board of 'Space Policy'. Further memberships include: International Academy of Astronautics (IAA), American Branch of the International Law Association (ABILA), International Bar Association's (IBA) Section on Business Law (SBL), Committee Z on Outer Space Law, International Policy Advisory Committee (IPAC) of the International Society of Photogrammetry and Remote Sensing (ISPRS), American Institute of Aeronautics and Astronautics (AIAA; Senior Member), and Centro de Investigacion y Difusion Aeronautico-Espacial (CIDA-E; Corresponding Member). He is also the owner of Black Holes B.V., a consultancy company for space law and policy.



06 March 2024 (Day 2)
Strategic Space Futures: 2055 and Beyond
Keynote



Dr. Pippa Malmgren
Special Assistant to the President, National Economic Council, Best-Selling Author, and Entrepreneur

Dr. Malmgren is an economist who makes sense of the world economy by writing books, by founding tech businesses, by advising policymakers around the world and through public speaking and teaching. She lectures at Sandhurst, The Royal College of Defence Studies and in the Duke Fuqua Global Executive MBA Program. She is a Senior Advisor to The Monaco Foundry, a European start-up incubator for impact-led founders. She is a member of the Advisory Board at Streamline Media, the firm that built many of the most successful video, digital and VR games in modern history. She is a Fellow of The Bertelsmann Stiftung Foundation for 2022-2024. She is also a Founder member of Lunarc, project designed to ensure the first human institution on the moon represents the arts and humanities. She is also on the Board of Premios Verdes which holds the “Green Oscars” to support cleantech start-ups in emerging markets and serves as a judge on The Queen’s Enterprise Business Awards. She is a Senior Associate Fellow of RUSI, the world’s leading defence think tank. She writes a column about the world economy on Substack.

She served President George W. Bush in the White House as Special Assistant to the President and on The National Economic Council. She served on the President’s Working Group on Corporate Governance and The President’s Working Group on Financial Markets. After 9/11 she was also responsible for assessing Terrorism Risks to the Economy and technology as a source of geopolitical competitiveness. Before joining the White House, she ran the Bankers Trust Asset Management business in Asia and was then appointed as the Global Chief Currency Strategist. She was then named the Deputy Head of Global Strategy at UBS. More recently she advised the British Cabinet on trade issues as a Board Member for The Department for International Trade from 2017-2019. In 2014, she co-founded a robotics firm that made industrial drones which won the Cog X Award for Autonomy, the 2020 National Technology Award and Power Product of the Year 2020.

She has a BA from Mount Vernon College and an M.Sc. and PhD from LSE. She completed the Harvard Program on National Security. She gave the graduation address at the London School of Economics in 2013 and 2016. Commercial firms like Google, Rolls Royce, American Express, major banks and asset managers like Citigroup and State Street, governments and military leaders retain her to speak.



06 March 2024 (Day 2) – Kickoff Lightning Talk



Mr. Gerald Sanders In-Situ Resource Utilization Systems Capability Lead, NASA Johnson Space Center

Gerald Sanders has worked at the NASA Johnson Space Center full time for 35 years in the Propulsion and Power Division of the Engineering Directorate, and has extensive experience in propulsion, fluid systems, and In Situ Resource Utilization (ISRU). Gerald Sanders has worked in the area of ISRU for over 25 years. During this time, he has led multiple strategic plans, architecture studies, development projects, and analog field tests for ISRU advancement. Gerald Sanders currently serves as the NASA ISRU System Capability Lead (SCL), and Co-Investigator for Human Mission Extensibility for Mars Oxygen ISRU Experiment (MOXIE) on the Mars 2020 rover. As the ISRU SCL, he serves as the technical steward for the Agency on ISRU, coordinates activities across multiple Mission Directorates and Centers, leads activities to inform mission planning work and investment strategies, and serves as Agency-wide resource to help NASA missions leverage technologies, facilities, and workforce unique to the capability. He received his Bachelor of Science degree in Aerospace Engineering from the University of Cincinnati in 1987.

06 March 2024 (Day 2) – Panel 1: Space Mining Governance: Private Terraforming, Resource Extraction, and Military Protection of Commerce

Moderator: Major Miles McCoy U.S. Space Forces – Space/OSJA

Major Miles C. McCoy is the advisor assigned to U.S. Space Forces - Space (S4S) and Assistant Legal Advisor to the Combined Joint Force Space Component Commander (C/JFSCC), Vandenberg Space Force Base, California. S4S, the U.S. Space Force Component Field Command and Service Component to United States Space Command (USSPACECOM), plans, integrates, conducts, and assesses global space operations to protect, defend and deliver combat relevant space effects, in from, and to space, for Combatant Commanders, Coalition partners, the Joint Force, and the Nation. As the C/JFSCC, S4S/CC directs worldwide day-to-day combined and joint space operations, such as space domain awareness, offensive and defensive space operations, spacecraft operations, satellite communication, strategic missile warning, nuclear detonation detection, environmental monitoring, military intelligence, surveillance and reconnaissance (ISR), navigation warfare, positioning, navigation and timing (PNT), human spaceflight support, and command and control, under Operation Olympic Defender on behalf of USSPACECOM. These operations are conducted in close coordination with the Intelligence Community, Coalition operations centers, and partner nations by multi-national forces and/or one of 75+ S4S subordinate units. These missions are controlled by one of S4S's five distinct and geographically dispersed operations centers: the CSpOC at Vandenberg Space Force Base, California; the Missile Warning Center (MWC) at Cheyenne Mountain Air Force Station, Colorado; the Joint Overhead Persistent Infrared Planning Center (JOPC) at Buckley Garrison, Colorado; the Joint Navigation Warfare Center (JNWC) located at Kirtland Air Force Base, New Mexico; and the National Space Defense Center (NSDC) at Schriever Space Force Base, Colorado. The S4S legal office provides timely, relevant, 24/7 specialized, mission-focused legal support to the S4S Staff, subordinate units and operations centers.





06 March 2024 (Day 2) – Panel 1: Space Mining Governance: Private Terraforming, Resource Extraction, and Military Protection of Commerce



Ms. Emily Pierce

U.S. Department of State, Office of Legal Adviser

Emily R. Pierce is currently an Attorney-Adviser for Oceans and International Environmental & Scientific Affairs specializing in space law in the Office of the Legal Adviser at the U.S. Department of State. She served as Special Assistant to the Legal Adviser in 2020 after returning from New York City, where she was assigned to the Legal Section at the U.S. Mission to the United Nations for more than three years. Emily has also completed rotations in United Nations Affairs and Ethics, and was detailed to the legal staff at the National Security Council in 2012. Emily has taught international organizations law at the George Washington University Law School and is a member of the American Society of International Law.

Dr. Wian Erlank

Professor of Law, North-West University, Potchefstroom, South Africa

Prof. Dr. Erlank is a Full Professor of law at North-West University in South Africa, where he currently teaches space law and cyber law. He is a NRF rated researcher holding a prestigious Y1 rating. He presents sessions on various areas of Space Law at the annual Gujarat Air and Space Law Academy held at the Gujarat National Law University and has been involved in and taught at the launch of the space law program at Tulane University. He is a Member of the International Institute of Space Law as well as a Fellow of the European Law Institute (ELI) and an active member of several ELI working groups, specifically those dealing with the legal effect of new technologies. He was awarded the prestigious Von Humboldt (Georg Forster) Research Fellowship for Experienced Researchers, kindly hosted by Prof. Dr. Stephan Hobe at the Institute for Air Law, Space Law and Cyber Law of the University of Cologne in Germany. His research interests and publications include aspects of property law, space law, virtual world law, cyber law, and social media law, usually with a focus on how property and property law function in new and unexplored environments, such as cyberspace and outer space.



Dr. Frans von der Dunk

Harvey & Susan Pearlman Alumni and Othmer Professor of Space Law, Nebraska College of Law

See biography above at Day 1 Lecture.



06 March 2024 (Day 2) – Panel 1: Space Mining Governance: Private Terraforming, Resource Extraction, and Military Protection of Commerce

Colonel (Ret.) Charles Galbreath Senior Resident Fellow for Space Studies at the Mitchell Institute’s Spacepower Advantage Center of Excellence

Charles is a retired United States Space Force Colonel; a Command Space Operator with expertise in Missile Warning, Space Control, Space Launch, and ICBM operations; and a Senior Materiel Leader with experience developing advanced technology demonstration and prototype systems. Prior to joining Mitchell, Charles served as the Deputy Chief Technology and Innovation Officer on the Headquarters United Space Force staff. Throughout his military career, Charles served in a variety of space operation, acquisition, test, and staff positions, including Deputy Chief Technology and Innovation Officer, Deputy Director for Innovation and Prototyping, Deputy Director for Strategy and Plans in OSD Space Policy, Deputy Commander for the 30th Launch Group, Squadron Commander for Missile Defense Agency’s demonstration satellites, and program manager for advanced space control capabilities. He also deployed to Afghanistan as the Space Liaison to Headquarters, International Security Assistance Force. In addition, he was an Air Force Fellow to the RAND Corporation.



Mr. L. Eric Sundby Executive Director, The Space Force Association, and CEO and Cofounder of TerraSpace

Eric Sundby serves as the Executive Director of the Space Force Association (SFA), and is the Co-Founder and CEO of TerraSpace, a start-up in the critical minerals industry. In his role at SFA he has led initiatives to create a Congressional Space Force Caucus, fostering bipartisan support for the newest U.S. military branch, and created advocacy programs in higher education, gaming, and the wider space industry. Eric serves on the Board of Advisors at the Sooner Flight Academy, and is Vice President of the Holocaust Art Restitution Project. He holds a BA in Economics from the University of Oklahoma, an MSc in Global Security from the University of Glasgow, a Graduate Certificate in Commercial Space Studies from the Florida Institute of Technology, and is currently pursuing a EMGM at the Thunderbird School of Global Management at Arizona State University, and a PhD in Aerospace Sciences at the University of North Dakota. Eric's hobbies include snow skiing, piloting, traveling, and studying history. He enjoys living in the Texas Hill Country with his wife and two dogs.



06 March 2024 (Day 2) – Kickoff Lightning Talk: Space Communications

Cadet Genevieve Sabado

U.S. Air Force Academy, Colorado Springs

Genevieve Sabado is from Pomona, California. She is a member of Cadet Squadron 24. She enjoys outdoor activities and has recently found a passion for skiing. While space law was unfamiliar territory, she eagerly delved into its complexities after being given the opportunity to present at this conference. Upon her research of space law, she has found it to be incredibly captivating, as it is being constantly developed as humanity continues its endeavors in space. She would like to become an Office of Special Investigations Agent or Intelligence Officer after graduating from USAFA. She would also love to pursue law school in the future and has a particular interest in business law.





06 March 2024 (Day 2) – Panel 2: Parallel Lessons Learned: How the Development of Intel and Cyber Law can Inform Future Space Operations Law

Moderator: Major Sandra Ahinga Chief of Administrative and Civil Law, Office of the Staff Judge Advocate, U.S. Space Command



Major Sandra Ahinga is currently the Chief of Administrative and Civil Law at U.S. Space Command. Prior to her arrival she earned an LL.M. in National Security Law with a Space Law focus from Georgetown University Law Center in Washington DC. While at Georgetown Major Ahinga served as a peer reviewer for the Journal on National Security Law and Policy, the world's only peer reviewed journal devoted to the subject matter. During her time at GULC, MAJ Ahinga pioneered a LL.M. subject matter specific (Space Law) externship in the Office of Legal Policy at the U.S. Department of Justice. Previous assignments include: Chief, National Security Law, U.S. Army Special Operations Command, Fort Bragg, North Carolina; Government Appellate Counsel, United States Army Legal Services Agency, Fort Belvoir, VA; Chief of Justice, United States Forces – Afghanistan, Bagram Airbase, Afghanistan; Operational and Administrative Law Attorney, 1st Armored Brigade Combat Team, 1st Cavalry Division, Fort Hood, Texas; Trial Counsel, 1st Armored Brigade Combat Team, 1st Cavalry Division, Fort Hood, Texas; Trial Counsel, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons, Belgium; Administrative Law Attorney, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons, Belgium; and Chief, Client Services, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons. MAJ Ahinga has deployed to Afghanistan in support of Operation Freedom's Sentinel and to Korea as part of the Army's Regionally Aligned Force. MAJ Ahinga is a graduate of the University of California, San Diego (BA, Sociology), the University of San Diego School of Law (JD), and the U.S. Army Judge Advocate General Legal Center and School (LL.M., Military Law).



Mr. Leonard Bailey U.S. Department of Justice, Criminal Division, Cybersecurity Unit

Mr. Bailey is Head of Computer Crime and Intellectual Property Section's (CCIPS) Cybersecurity Unit and Special Counsel for National Security in the Department of Justice's (DOJ) Criminal Division. He joined DOJ's Terrorism and Violent Crime Section in 1991. In the late 1990's, he served as Special Counsel and Special Investigative Counsel to DOJ's Inspector General and supervised sensitive investigations of Department officials and programs. In 2000, he joined CCIPS where he has prosecuted computer crime and intellectual property cases; advised on matters related to searching and seizing electronic evidence and conducting electronic surveillance; and chaired the Organization of American States' Group of Government Experts on Cybercrime. In 2009, he moved to DOJ's National Security Division where he served in multiple roles over the years, and focused on critical infrastructure protection, offensive and defensive cyber policy, and application of national security cyber authorities in criminal matters. As Associate Deputy Attorney General in the Office of the Deputy Attorney General, he coordinated DOJ's cyber policy and initiatives and the cyber-related work DOJ conducted with the National Security Council. He returned to CCIPS in 2013 where he currently leads their work on cybersecurity policy. Bailey is a graduate of Yale University and Yale Law School. He has taught courses on cybersecurity, cybercrime, and critical infrastructure protection at Georgetown Law School; Columbus School of Law in Washington, D.C.; and New York University Law School. He has received the Justice Department Criminal Division's John C. Keeney Award for professionalism and integrity.



06 March 2024 (Day 2) – Panel 2: Parallel Lessons Learned: How the Development of Intel and Cyber Law can Inform Future Space Operations Law

Dr. Laura Donohue
Scott K. Ginsburg Professor of Law and National Security,
Georgetown University Law Center

Laura K. Donohue is a Professor of Law at Georgetown Law, Director of Georgetown’s Center on National Security and the Law, and Director of the Center on Privacy and Technology. She writes on political theory, public law, constitutional law, federal courts, national security, and legal history. Her work on new and emerging technologies centers on social media, biometric identification, augmented and virtual reality, artificial intelligence, and drones. Her book, *The Future of Foreign Intelligence: Privacy and Surveillance in a Digital Age* (Oxford University Press, 2016), won the 2016 IIT Chicago-Kent College of Law/Roy C. Palmer Civil Liberties Prize. She also wrote *The Cost of Counterterrorism: Power, Politics, and Liberty* (Cambridge University Press, 2008); and *Counterterrorist Law and Emergency Law in the United Kingdom 1922-2000* (Irish Academic Press, 2007). Professor Donohue is a Life Member of the Council on Foreign Relations; an Advisory Board Member of the Electronic Privacy Information Center; and Reporter for the American Bar Association’s Criminal Justice Section Task Force on Border Searches of Electronic Devices. She has served on the Board of the American Bar Association’s Standing Committee on Law and National Security and is a Senior Scholar at Georgetown Law’s Center for the Constitution. Donohue obtained her AB in Philosophy (with Honors) from Dartmouth College; her MA in Peace Studies (with Distinction) from the University of Ulster, Northern Ireland; her JD (with Distinction) from Stanford Law School; and her PhD in History from the University of Cambridge, England.



Captain Peter Pascucci
Fleet Judge Advocate, United States Fleet Cyber Command, U.S.
Navy Space Command

CAPT Peter P. Pascucci is currently assigned as the Fleet Judge Advocate, U.S. Fleet Cyber Command/U.S. Navy Space Command. CAPT Pascucci received his bachelors of arts degree in marine and coastal policy from the University of Rhode Island in 2000 and his juris doctorate from Roger Williams University School of Law in 2003. He received a masters of arts degree, with distinction, in national security and strategic studies from the Naval War College in 2013, and a masters of law degree (LLM), with distinction and dean’s list recognition, in national security law from the Georgetown University Law Center in 2015. Additionally, he is the 2015 recipient of the Thomas B. Chetwood S.J. prize for academic excellence in national security law at Georgetown. CAPT Pascucci received his commission as an Ensign through the student program in 2002 and entered

active duty service in January 2004.



06 March 2024 (Day 2) – Panel 2: Parallel Lessons Learned: How the Development of Intel and Cyber Law can Inform Future Space Operations Law

Lieutenant Colonel John Goehring Office of General Counsel, National Geospatial-Intelligence Agency

Lieutenant Colonel John Goehring is the Individual Mobilization Augmentee to the Staff Judge Advocate (IMA to the SJA) at the Space Base Delta 2 Legal Office, Buckley Space Force Base, Colorado. He was previously assigned to HQ AF/JAO both on active duty and again upon his transition to the reserves in 2018. Before that he served as a space law attorney and instructor at Headquarters Air Force Space Command following his studies in Air & Space Law at McGill University in Montreal, Canada. He has also been assigned to the Air Force Legal Operations Agency, serving as the Executive Officer to the Commander. Lt Col Goehring was admitted to the California Bar in 2004. Upon completing a clerkship with the Honorable Ginger Berrigan of the Federal District Court for the Eastern District of Louisiana during the 2004-2005 term, he received a direct appointment from the Air Force and entered active duty in 2006. His wife, Kara, is from Plymouth, England, and they have two daughters. As a civilian, Lt Col Goehring has been a part of the National Geospatial-Intelligence Agency (NGA) Office of General Counsel since 2019. In July 2021 he became the NGA Regional Counsel at the Aerospace Data Facility – Colorado (ADF-C) on Buckley Space Force Base, Colorado.



Mr. Todd Pennington Associate Deputy General Counsel for Intelligence for the U.S. Department of Defense

Mr. Todd W. Pennington is an Associate Deputy General Counsel in the Intelligence Division of the Department of Defense Office of General Counsel. His portfolio includes Space, Cyber, and Special Technical Operations. Mr. Pennington served as an Air Force officer for 25 years. From 2002 through 2011, he served as legal advisor for several joint and service special operations commands, including four years as the Deputy Staff Judge Advocate for the Joint Special Operations Command at Fort Liberty, North Carolina. He deployed as a Task Force Staff Judge Advocate several times to Iraq, Afghanistan, and other deployed locations. Following an assignment as the Staff Judge Advocate for the 509th Bomb Wing and America's fleet of B-2 stealth bombers at Whiteman Air Force Base, Missouri, he served at the Pentagon from 2014 through 2016 as Deputy Legal Counsel in the Office of the Chairman of the Joint Chiefs of Staff. As Deputy Legal Counsel, he advised the Chairman of the Joint Chiefs of Staff, the Vice Chairman, and the Joint Staff on law and policy pertaining to nuclear operations, space flight activities, continuity of government responsibilities, and military activities in the Western Hemisphere. He attained the rank of Colonel in 2016 while assigned to Pacific Air Forces, Joint Base Pearl Harbor-Hickam, Hawaii, where he held several positions including Deputy Staff Judge Advocate. At Pacific Air Forces, Mr. Pennington represented the command in bilateral activities and engagements with Australia, Japan, the Republic of Korea, and the Republic of China (Taiwan). During this assignment, he was a member of the United States Indo-Pacific Command delegation to the People's Republic of China for bilateral talks under the Military Maritime Consultative Agreement. In 2019, Mr. Pennington began the first of three assignments leading teams of legal advisors for space mission headquarters, first as the Staff Judge Advocate for Combined Force Space Component Command, and later as the Staff Judge Advocate for United States Space Force. While assigned to the Space Force, he spearheaded reforms to the service-level weapon system legal review process. His active-duty military career culminated with assignment as the Staff Judge Advocate for United States Space Command. In 2023, Mr. Pennington retired from active duty and joined the Office of General Counsel as a civilian attorney.



06 March 2024 (Day 2) – Kickoff Lightning Talk: Space Communications

Cadet David Micah Stark

U.S. Air Force Academy, Colorado Springs

Cadet Stark is a third-year cadet at the United States Air Force Academy. A legal studies major and Cadet in Charge of the Academy Oath Project, Cadet Stark’s academic pursuits include Law of War, International Law, and Civil-Military Relations. Cadet Stark is a Legal Studies major with a Philosophy minor, emphasizing his academic efforts on military conduct. His research interests include civil-military relations, Law of War, Just War Theory, and International Relations. A current Truman Scholarship candidate, Cadet Stark aspires to earn a master’s degree in international relations after graduation. Upon commissioning, Cadet Stark hopes to earn a slot for Euro-NATO Joint Jet Pilot Training (ENJJPT) and go on to fly fighters or bombers for the Air Force.



06 March 2024 (Day 2) – Panel 3: Planetary Defense: A Legal Perspective



Moderator: Professor R. Aubrey Davis

Assistant Professor of Law, USAF Academy Department of Law

Prof. R. Aubrey Davis is an Assistant Professor of Law at the United States Air Force Academy (USAFA). He serves as the Director of Law and Emerging Technology for USAFA’s Law, Technology, and Warfare Research Cell (LTWRC). Prof. Davis teaches in USAFA’s Department of Law focusing on international law, space, cyberspace, and emerging technology. He developed a curriculum entitled Law and Emerging Technology which he is currently teaching at USAFA. His research interests focus on the nexus between technology, law, and ethics with particular focus on quantum information sciences, artificial intelligence, and biotechnology. Prof. Davis served as an Army Aviation Officer, Intelligence Officer and as a Judge Advocate over the span

of a 32-year career. He finished his active-duty career as the Chief, Cyberspace Law at Air Combat Command, Langley AFB, VA where he served as an advisor to the Air Force’s operational cyberspace wings and their components to the Intelligence Community.

Brigadier General Traci L. Kueker-Murphy

Deputy Director of Strategy, Plans, and Policy, United States Space Command

Brig Gen Traci L. Kueker-Murphy is the Deputy Director, Strategy, Plans and Policy, United States Space Command, Peterson Space Force Base, Colorado. She is responsible for developing military strategies, issuing strategic guidance, planning military campaigns and contingency operations, and formulating policy in support of combatant commander’s responsibilities outlined in the Unified Command Plan. Brig Gen Kueker-Murphy earned her commission through the Air Force Reserve Training Corps at University of Southern Illinois at Edwardsville in 1990. She joined the Air Force Reserve in 1998. She has commanded at the squadron, group and wing level, and served at Headquarters Air Force Reserve Command, Headquarters Space Operations Command, and Headquarters United States Space Force. Brig. Gen. Kueker-Murphy has also served on a Joint Air Component Coordination Element and as the Director of Space Forces for exercise Key Resolve. Prior to this assignment, Brig. Gen Kueker-Murphy was the Mobilization Assistant to the Deputy Chief of Space Operations for Operations, Cyber, and Nuclear, United States Space Force, the Pentagon, Arlington, Virginia.





06 March 2024 (Day 2) – Panel 3: Planetary Defense: A Legal Perspective



Ms. Emily Pierce

U.S. Department of State, Office of Legal Advisor

Emily R. Pierce is currently an Attorney-Adviser for Oceans and International Environmental & Scientific Affairs specializing in space law in the Office of the Legal Advisor at the U.S. Department of State. She served as Special Assistant to the Legal Advisor in 2020 after returning from New York City, where she was assigned to the Legal Section at the U.S. Mission to the United Nations for more than three years. Emily has also completed rotations in United Nations Affairs and Ethics, and was detailed to the legal staff at the National Security Council in 2012. Emily has taught international organizations law at the George Washington University Law School and is a member of the American Society of International Law.

Mr. Steven A. Mirmina

Senior Attorney, NASA Office of General Counsel, International and Space Law

Since 1999, Steve Mirmina has worked as an attorney in the International and Space Law Division of NASA's Office of the General Counsel. He has helped negotiate and conclude more than 1,000 international agreements for missions including human space flight, Mars exploration, climate observation, and aeronautics research. Before joining NASA, he practiced Aviation Law with a leading DC law firm. Steve has LL.M. degrees from Leiden University (The Netherlands) and Georgetown (Washington, DC). He received his *Juris Doctor* from the University of Connecticut (UConn) School of Law and his B.A. from Brandeis University (Boston). Outside of work, Steve has taught Space Law at the Law Schools of Georgetown, UConn, Vanderbilt, and Yale. In late 2022, he co-authored a textbook on Space Law for use by law students and practitioners. Steve has spoken widely and authored numerous articles in the fields of international air and space law. He has received awards from both NASA and the White House for his exceptional and distinguished service. In 2023, NASA OGC presented Steve with its prestigious Meritorious Service Award for his lifetime achievements. When he's not working or teaching, he is probably playing with his two sons.



Mr. Nicholas Fernandes

Senior Lawyer, Science and Intellectual Property Team DSIT

Nicholas Fernandes is a barrister employed in the United Kingdom Government Legal Department as a legal adviser to the Department for Science, Innovation and Technology where he advises the UK Space Agency and the Space Directorate on space law and the Intellectual Property Office on intellectual property law. As legal adviser to the UK Delegation, he has attended meetings of the UN Committee on Peaceful Uses of Outer Space in Legal Subcommittee and in Plenary Session. As UK delegate to the European Space Agency, he attended meetings on ESA / NASA Cooperation on the Lunar Gateway. He was also in the UK delegation for the negotiations on the Artemis Accords. As a member of the Legal Working Group of the Space Mission Planning Advisory Group, he contributed to the report on the legal aspects of Planetary Defence against threats from near-Earth objects.



06 March 2024 (Day 2) – Panel 3: Planetary Defense: A Legal Perspective



Dr. Alissa Haddaji **Founder and President of The Space Consortium**

Alissa J. Haddaji serves as the Lead of the United Nations-mandated SMPAG Legal Working Group on Planetary Defense, supported by the International Academy of Astronautics. Additionally, she is an Adjunct Professor specializing in Space Law, Policy, and Ethics, and contributes as a faculty researcher in the field of International Space Threat Management, specifically focusing on Planetary Protection & Defense. Haddaji is also the founder and director of The Space Consortium, a Massachusetts-based nonprofit organization dedicated to space education and outreach. Notably, she launched and leads the organization of Boston Space Week, an annual space outreach event formerly known as Space Week at Harvard, which has expanded to encompass the greater Boston area. Haddaji has developed and taught various institutions' first Space Law, Policy, and Ethics curriculum, including Harvard Law School, Harvard Summer School, Boston College Law School, and Paris Saclay University. She now teaches her course to graduate students in Massachusetts through the Consortium's free Space Education program. Currently, she holds the position of Vice-Chair for the Near Earth Object & Planetary Defense committee within the International Astronautical Federation. Additionally, she has recently joined the Science Documentary production company Good To Know as an Associate Producer, supporting their space-themed and ocean-themed documentaries. Haddaji holds a PhD in Science and Technology Policy, along with five Master's Degrees in Planetary Science (with a specialization in oceanography), History/International Relations, Political Science, Law, and Socio-Anthropology, from Brown University, La Sorbonne University, and Bordeaux 1 University, respectively.

Dr. Andrea Harrington **Co-Director of the Institute of Air and Space Law and Associate Professor, McGill University, Canada**

Prof. Andrea Harrington currently serves as the Co-Director of the Institute of Air and Space Law and Associate Professor in the McGill Faculty of Law. She is a member of the editorial board for the McGill *Annals of Air and Space Law*, *New Space*, and the American Bar Association publication *The Air and Space Lawyer* as well as providing peer review for numerous other publications including *Acta Astronautica* and *Space Policy*. Among other publications, she is the author of the book "Space Insurance and the Law: Maximizing Private Activities in Outer Space," which won the British Insurance Law Association Book Prize for 2022. Prof. Harrington is a licensed attorney in the Commonwealth of Massachusetts. She also teaches in the Space Resources Program for the Colorado School of Mines. Her current research focuses on the use of the principle of due regard in space law and international law.

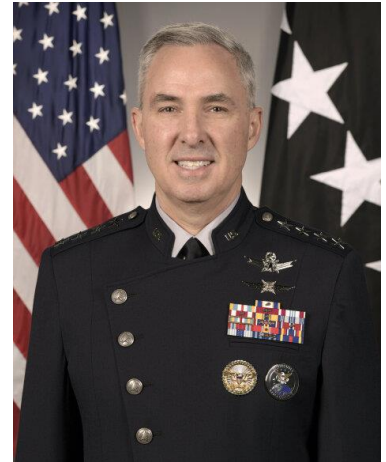




06 March 2024 (Day 2) Closing Remarks

General Stephen N. Whiting **Commander, United States Space Command**

General Stephen N. Whiting is the Commander, U.S. Space Command, headquartered at Peterson Space Force Base, Colo. As the Commander of U.S. Space Command, General Whiting is responsible for defending U.S. and Allied interests in the space domain while providing space-enabled combat effects to joint warfighters around the globe. He exercises combatant command authority over Soldiers, Marines, Sailors, Airmen, and Guardians operating ground and space-based systems around the world.



General Whiting is a 1989 distinguished graduate of the U.S. Air Force Academy with a degree in aeronautical engineering. He is a space operations officer and has commanded the 13th Space Warning Squadron; the 614th Air and Space Operations Center and Joint Space Operations Center; the 21st Space Wing; and the Combined Force Space Component Command and 14th Air Force.

General Whiting's staff assignments include positions at Headquarters U.S. Air Force; U.S. Space Command; U.S. Strategic Command; the Chief of Naval Operations' Strategic Studies Group; the Office of the Deputy Secretary of Defense; Headquarters Air Force Space Command; and Headquarters U.S. Space Force. Prior to his current position, General Whiting was the Commander, Space Operations Command.





07 March 2024 (Day 3) – Senior Intelligence Leadership Perspective: Threats from Strategic Competitors to U.S. National Security Interests in Space

Brigadier General Brian Sidari Director of Intelligence, U.S. Space Command

Brig Gen Sidari is the Director of Intelligence, United States Space Command, Schriever Space Force Base, Colorado. In this capacity, he serves as the senior intelligence advisor to the Commander of USSPACECOM and directs all intelligence operations. Brig. Gen. Sidari commissioned in 1995 from the Kent State University's Reserve Officer Training Corps program. He has held numerous operational and staff tours, featuring joint and combined service in three theaters. Prior to this assignment, he served as the Director of Intelligence, Surveillance, and Reconnaissance at Headquarters, Space Operations Command, Peterson Space Force Base, Colorado. He has served in or deployed to U.S. European Command, U.S. Central Command, U.S. Indo-Pacific Command, Headquarters U.S. Air Force, and the Joint Staff.





07 March 2024 (Day 3) – Panel 1: Deterrence through Detection and Attribution of Hostile Acts in Space

Moderator: Major Aaron Brynildson USSPACECOM National Space Defense Center

Major Aaron M. Brynildson is currently the Legal Advisor (LEGAD) to the Director of the National Space Defense Center and Commander of Space Delta XV. He also serves as part of the legal office for U.S. Space Forces - Space (S4S) and for the Combined Joint Force Space Component Commander (C/JFSCC). Maj Brynildson grew up in Livermore, CA. In 2012, he graduated from the University of California, Irvine. In 2015, he graduated from the UC Irvine School of Law. He is admitted to practice law before the Supreme Court of California. Maj Brynildson received a direct commission in December 2015 and entered active duty in January 2016.



Mr. Jeremy Weinberg U.S. Department of State, Office of Legal Advisor

Jeremy Weinberg has been an Attorney-Adviser in the Office of the Legal Adviser at the U.S. Department of State since 2006 and currently covers outer space security topics along with marine and air pollution. Among his other favorite portfolios have been legal issues relating to the European Union and the Balkans, privacy, international trade and intellectual property, and citizenship and consular affairs. He entered federal practice after earning his J.D. at the University of Virginia School of Law, where he served as Submissions Review Editor of the Virginia Journal of International Law (VJIL). Before law school, he was a journalist for the Moscow Times newspaper in Russia and a member of the Goldman Sachs investment research department in London and New York. He graduated from Yale University in 1992 with a B.A.

in History and from the London School of Economics in 1994 with an M.Sc. in International History, focusing on European integration. He is a member of the Editorial Advisory Committee for International Legal Materials, published by the American Society of International Law, and has taught a seminar on European Union Law as an adjunct professor at Georgetown and George Mason law schools. He has particular interest in federal agency knowledge management capabilities and Microsoft 365.

Squadron Leader Stuart Agnew Legal Advisor, United Kingdom Space Command

Squadron Leader Stu Agnew is a Royal Air Force legal officer. He is the inaugural Legal Adviser within UK Space Command, having been assigned to the Command from its establishment on April 1, 2021. From the Command's Headquarters at RAF High Wycombe, Squadron Leader Agnew advises Commander UK Space Command on operational, capability development and delivery, training, and workforce issues. As the only military officer within UK Defence dedicated to advising on space matters, his legal support extends to other Defence space stakeholders. His previous operational experience includes a posting in the Legal Operations team at Headquarters Air Command. In 2018, he also undertook an operational deployment tour at the Combined Air Operations Centre at Al Udeid Air Base, as part of the UK air contribution to Operation Inherent Resolve.





07 March 2024 (Day 3) – Panel 1: Deterrence through Detection and Attribution of Hostile Acts in Space

Wing Commander Alec (Julian) Tattersall Defense Space Command, Royal Australian Air Force

Wing Commander Alec Tattersall has been a permanent member of the Royal Australian Air Force (RAAF) since 1996. Recent postings include; Headquarters Joint Operations Command, Air Force Headquarters, the Directorate of Operations and International Law, a CAF Fellowship (undertaking a Masters in Philosophy focussed on AWS), the Australian Signals Directorate as a Special Counsel and then the newly formed Defence SIGINT and Cyber Command. Threaded through these postings are operational deployments to the Middle East and domestically for counter-terrorism. He has acted as the Defence Legal representative to the UNGGE on LAWS in 2017/18, and now the OEWG on Reducing Space Threats in 2023. He is currently posted to Defence Space Command.

Major Christopher Nam Deputy Director, Strategic & Operational Law Office of the Judge Advocate General, Canadian Armed Forces

Major Christopher Nam has been a legal officer within the Office of the Judge Advocate General and Canadian Armed Forces since 2013. He is currently the Deputy Director of Strategic & Operational Law advising on CAF operations at the strategic level. He is also the primary legal advisor for defence-related space matters. Prior operational legal experience includes supporting the operational headquarters of the Royal Canadian Air Force and Canadian NORAD Region, advising on full-spectrum operations for Canadian Joint Operations Command, and advising on SIGINT and cyber operations for Canadian Forces Information Operations Group. Major Nam received his J.D. from the University of Alberta Law School, and his M.A. in International Relations and Contemporary War from King's College London.





07 March 2024 (Day 3) – Panel 1: Deterrence through Detection and Attribution of Hostile Acts in Space



Mr. Todd Pennington

Associate Deputy General Counsel for Intelligence for the U.S. Department of Defense

Mr. Todd W. Pennington is an Associate Deputy General Counsel in the Intelligence Division of the Department of Defense Office of General Counsel. His portfolio includes Space, Cyber, and Special Technical Operations. Mr. Pennington served as an Air Force officer for 25 years. From 2002 through 2011, he served as legal advisor for several joint and service special operations commands, including four years as the Deputy Staff Judge Advocate for the Joint Special Operations Command at Fort Liberty, North Carolina. He deployed as a Task Force Staff Judge Advocate several times to Iraq, Afghanistan, and other deployed locations. Following an assignment as the Staff Judge Advocate for the 509th Bomb Wing and America's fleet of B-2 stealth bombers at Whiteman Air Force Base, Missouri, he served at the Pentagon from 2014 through 2016 as Deputy Legal Counsel in the Office of the Chairman of the Joint Chiefs of Staff. As Deputy Legal Counsel, he advised the Chairman of the Joint Chiefs of Staff, the Vice Chairman, and the Joint Staff on law and policy pertaining to nuclear operations, space flight activities, continuity of government responsibilities, and military activities in the Western Hemisphere. He attained the rank of Colonel in 2016 while assigned to Pacific Air Forces, Joint Base Pearl Harbor-Hickam, Hawaii, where he held several positions including Deputy Staff Judge Advocate. At Pacific Air Forces, Mr. Pennington represented the command in bilateral activities and engagements with Australia, Japan, the Republic of Korea, and the Republic of China (Taiwan). During this assignment, he was a member of the United States Indo-Pacific Command delegation to the People's Republic of China for bilateral talks under the Military Maritime Consultative Agreement. In 2019, Mr. Pennington began the first of three assignments leading teams of legal advisors for space mission headquarters, first as the Staff Judge Advocate for Combined Force Space Component Command, and later as the Staff Judge Advocate for United States Space Force. While assigned to the Space Force, he spearheaded reforms to the service-level weapon system legal review process. His active-duty military career culminated with assignment as the Staff Judge Advocate for United States Space Command. In 2023, Mr. Pennington retired from active duty and joined the Office of General Counsel as a civilian attorney.





07 March 2024 (Day 3) – Panel 2: Mission Assurance Through Use of Commercial Space Capabilities and Services

Moderator: Major Nicholas Mahanic Chief of Space & Operations Law, Space Operations Command

Major Mahanic is the Chief of Space and Operations Law for Space Operations Command (a Field Command of the United States Space Force), Peterson Space Force Base, Colorado. He is part of a team responsible for providing legal advice and instruction to commanders and government officials on all space, international, and operations law issues affecting Space Force directorates, staff agencies, deltas, and garrisons performing space missions. As a Field Command of the United States Space Force, Space Operations Command generates, presents, and sustains mission-ready space forces providing missile warning, positioning, navigation and timing, communications, space electronic warfare, space control, command and control, and space domain awareness capabilities for United States Space Command and other combatant commands. The command manages a global network of satellite command and control, communications, and missile warning facilities. Major Mahanic received a direct commission as an Air Force judge advocate in July 2013 and entered active duty in August 2013. He is admitted to practice law before the Supreme Court of Nevada and the United States Court of Appeals for the Armed Forces. Before joining the Air Force, he worked as a law clerk for the Supreme Court of Guam from 2012-13, and as a staff attorney for the U.S. Court of Appeals for the Eleventh Circuit, Atlanta, Georgia, from 2009-12.



Ms. Loni Gardner Assistant General Counsel, Office of General Counsel National Reconnaissance Office





07 March 2024 (Day 3) – Panel 2: Mission Assurance Through Use of Commercial Space Capabilities and Services



Colonel Justin Silverman General Counsel, Space Development Agency, The Pentagon

Colonel Justin Silverman is the General Counsel at the Space Development Agency (SDA), Pentagon. He supports SDA's development and fielding of DoD's threat-driven, next-generation National Defense Space Architecture designed to unify and integrate space capabilities across the Department that increase the joint warfighters' lethality, maneuverability, and survivability. Col Silverman's previous assignments include Staff Judge Advocate, Deputy Staff Judge Advocate, Program Counsel, Honors Clerk, and Area Defense Counsel. Col Silverman received a commission through the Direct Appointment Program in 2003. He is admitted to practice law in New York and New Jersey, and before the Court of Appeals for the Armed Forces and the United States Supreme Court.

Squadron Leader Stuart Agnew Legal Advisor, United Kingdom Space Command

Squadron Leader Stu Agnew is a Royal Air Force legal officer. He is the inaugural Legal Adviser within UK Space Command, having been assigned to the Command from its establishment on April 1, 2021. From the Command's Headquarters at RAF High Wycombe, Squadron Leader Agnew advises Commander UK Space Command on operational, capability development and delivery, training, and workforce issues. As the only military officer within UK Defence dedicated to advising on space matters, his legal support extends to other Defence space stakeholders. His previous operational experience includes a posting in the Legal Operations team at Headquarters Air Command. In 2018, he also undertook an operational deployment tour at the Combined Air Operations Centre at Al Udeid Air Base, as part of the UK air contribution to Operation Inherent Resolve.



Mr. Allen Coe Program Attorney, Space Acquisition Law Division, Space Systems Command, United States Space Force

Mr. Coe is an attorney in the Space Acquisition Law Division in the Office of the Staff Judge Advocate, Space Systems Command (SSC), a field command of the United States Space Force at Los Angeles AFB, California. Mr. Coe is the lead counsel for the MilComm & PNT Directorate which rapidly delivers premier MilComm & PNT capabilities resilient to the threat by the relentless pursuit of warfighter needs and acquisition excellence. Mr. Coe also acts as the primary adviser for the global positioning systems (GPS) program which develops, acquires, and sustains the world's premier satellite position navigation and timing system. Finally, Mr. Coe performs the duties of Acting Chief of SSC/JA Space Acquisition Law Division while the Chief is absent supervising 12 attorneys supporting an \$11B annual acquisition portfolio. Mr. Coe is a registered patent attorney and an active member of the Oklahoma bar. Mr. Coe is also a retired Air Force Lieutenant Colonel with 28 years of military service in the Air Force Judge Advocate Corps. Mr. Coe is married to Pei Hua "Peggy" Wu. They have one son, Julian.

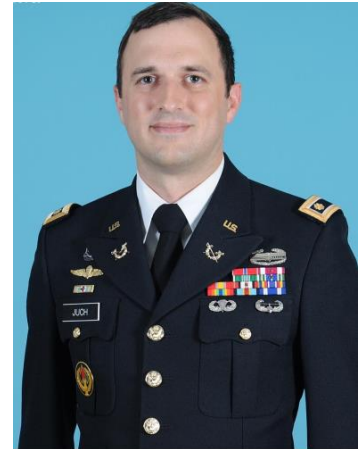


07 March 2024 (Day 3) – Panel 3: Protection of U.S. Military Forces from Space-Enabled Threats Including Threats Beyond GEO

Moderator: Major Jason Juch

Officer in Charge, Space Operations Law Division, U.S. Army Space and Missile Defense Command (USASMCD)

MAJ Juch assumed duties at U.S. Army Space and Missile Defense Command in July 2023. In his current position, he focuses on the USASMDC mission of providing current and future global space, missile defense, and high altitude capabilities to the Army. He most recently served as a student at The Judge Advocate General's Legal Center and School where he attained an LL.M. degree in Military Law with a concentration in National Security Law. MAJ Juch commissioned into the U.S. Army through the Corps of Cadets at Texas A&M University and earned his J.D. from Baylor School of Law. His initial military assignments included Legal Assistance Attorney, Special Victims Counsel, and Trial Counsel at the 82nd Airborne Division. During this time, he attended Airborne and Air Assault schools and deployed with Special Operations Joint Task Force – Afghanistan in support of Operation Freedom's Sentinel, advising multinational special operations teams and the Military Information Support Task Force – Afghanistan. Following deployment, MAJ Juch served as a National Security Law Observer Coach / Trainer at the National Training Center, transitioning brigade and division staff officers from counterinsurgency doctrine to large-scale combat operations. He then moved to U.S. Army North, where he advised the ASCC and USNORTHCOM JFLCC on domestic intelligence, defense support of civil authorities, and homeland defense operations including a domestic deployment in support of Operation Allies Welcome.



Major Jonathan Sawmiller

Chief of Operations Law, United States Space Command

Maj Sawmiller is the Chief of Operations Law, Office of the Staff Judge Advocate, United States Space Command, Peterson SFB, Colorado. Maj Sawmiller is responsible for advising a four-star combatant commander, his staff, and joint operations center on compliance with international and domestic law and policy for global space operations, activities, and missions. Maj Sawmiller enlisted in the Idaho Air National Guard in 2005, where he specialized in CBRN defense. While enlisted, he deployed twice, operating CBRN detection networks and searching for WMDs in Iraq. During law school, Maj Sawmiller was a Law Review editor, interned for the U.S. Army JAG Corps, and worked as a limited license prosecutor in Ada County, Idaho. He also worked as a DOD contractor administering the Navy-Marine Corps Intranet, and clerked for the Honorable Daniel Eismann, Chief Justice of the Idaho Supreme Court. Maj Sawmiller

transferred to the Regular Air Force and received a direct commission as a Judge Advocate in December 2011. He is admitted to practice law before the Supreme Court of Idaho and the United States Court of Appeals for the Armed Forces. Prior to his current assignment, Maj Sawmiller served in a variety of judge advocate roles, including Area Defense Counsel, Rule of Law Advisor, Cyberspace Operations Legal Advisor, and Deputy Staff Judge Advocate of an F-15E fighter wing.



07 March 2024 (Day 3) – Panel 3: Protection of U.S. Military Forces from Space-Enabled Threats Including Threats Beyond GEO

Major Brian Green

Chief of Space/Operations Law, Space Training & Readiness Command

Major Green serves as the Chief of Space and Operations Law for Space Training and Readiness Command (STARCOM). STARCOM builds and leads the United States Space Force's education, training, doctrine, range, aggressor, and test programs to prepare every Guardian, develop superior space capabilities, and deliver warfighting solutions to ensure the Space Force prevails in competition and conflict. Major Green also serves as the primary space law instructor at the National Security Space Institute and the 319th Combat Training Squadron, which annually provide professional continuing education to over 2,600 select U.S. and allied military members and civilians. Major Green holds B.A. degrees in Political Science and Interdisciplinary Visual Arts from the University of Washington, a J.D. from the University of Virginia, and an LL.M. from the McGill University Institute of Air and Space Law. Previously, Major Green worked in the base legal offices at Grand Forks and Lackland, where he later served as a disability attorney and medical law consultant. He then studied air and space law at McGill University, practiced space law at 14th Air Force, taught space, operations, and international law at the Air Force Judge Advocate General's School, and returned to the practice of space and international law at Space Operations Command. He deployed to Iraq in support of detainee operations in 2007 and to Qatar in support of coalition air and space operations in 2018-19. He has published several peer-reviewed articles and book reviews and his first book chapter is due to be published in *Ethical Dilemmas in the Global Defense Industry* (Oxford U. Press, forthcoming in 2023).



Lieutenant Colonel Anthony Fornasier

Chief, Operations Law, United States Central Command

Lieutenant Colonel Antonio Fornasier Jr is assigned as the Chief of Operation Law, Headquarters U.S. Central Command (USCENTCOM), MacDill Air Force Base, Florida. Serving at the premier warfighting geographic combatant command on a joint and combined staff, Lt Col Fornasier provides legal and policy advice on myriad operational issues arising in the combatant command's 21-country area of responsibility. Lt Col Fornasier also serves as the legal advisor to the Air Force Element Commander, Headquarters USCENTCOM. Lt Col Fornasier entered active duty in May 2006 after completion of four years of ROTC at Boston University. After graduation, he received his commission as a second lieutenant in the Air Force. He was an Intelligence Officer from 2007 to 2010. During that time, he worked with F-22 and F-15C fighter squadrons. In 2010, Lt Col Fornasier was selected for the Funded Legal Education Program (FLEP), and moved to Nebraska to attend Creighton Law School. At Creighton, Lt Col Fornasier served as the Lead Articles Editor for the Creighton Law Review. Lt Col Fornasier has previously served as an Area Defense Counsel, Chief of Military Justice, and Deputy Staff Judge Advocate. He is admitted to practice law before the Iowa Supreme Court, the Air Force Court of Criminal Appeals, and the United States Court of Appeals for the Armed Forces.



07 March 2024 (Day 3) – Panel 3: Protection of U.S. Military Forces from Space-Enabled Threats Including Threats Beyond GEO

Major Andom T. Gherezghiher Deputy Staff Judge Advocate, Marine Forces Cyberspace

Maj Gherezghiher began his career in the fleet as a federal prosecutor at the Marine Corps Air Ground Combat Center in Twentynine Palms, CA. He handled a wide variety of investigations and prosecutions ranging from sexual/gender-based violence (SGBV) to organized crime. In 2013, he deployed with Regimental Combat Team-7 to Helmand Province, Afghanistan, in support of Operation ENDURING FREEDOM. He served as the Deputy Regimental Judge Advocate/Operational Law Officer and later as the Regimental Judge Advocate. He primarily worked in kinetic operations and Law of War investigations. In the fall of 2013, he deployed to Operation SOUTHERN KATIPO in the south Pacific. Here, he served as legal advisor to the exercise commander and instructor to 13 partner nation participants. In May of 2014, Maj Gherezghiher took charge of Company A, HQBN, MCAGCC. The approximately 500 Marines, Sailors, and civilians of his company were responsible for numerous missions aboard the installation to include base security, communications/data, dining facilities and the NCO/SNCO academy. In 2015, Maj Gherezghiher reported to the Defense Institute of International Legal Studies as an operations officer with a focus on the Middle East and Africa. He organized and led teams dispatched to train on Human Rights Law, SGBV, gender equality/equity, counter-corruption/ethics and establishing “Train the Trainer” programs for partner military forces in Arabic, Tigrinya, and other languages across over 40 countries. In 2018, Maj Gherezghiher began a two-year tour as the Senior Defense Counsel for MARFOREUR/AF, MARFORRES, and the National Capital Region representing clients in all manners of administrative and criminal law matters. He followed that assignment with a 1-year tour as the Regional Victim’s Legal Counsel for the same region representing victims of sexual assault and domestic violence.



Commander Elizabeth O’Connor Deputy Legal Counsel, Office of the Chairman of the Joint Chiefs of Staff

CDR Elizabeth O’Connor is currently assigned to the Office of the Legal Counsel to the Chairman of the Joint Chiefs of Staff. After attending Naval Justice School in 2007, she served as a defense counsel and a legal assistance attorney at Naval Legal Service Office Northwest from December 2007 until May 2009. CDR O’Connor served as the PHIBRON SEVEN SJA from May 2009 to May 2010. Amphibious Squadron SEVEN was embarked aboard USS BONHOMME RICHARD (LHD-6), out of San Diego, CA. PHIBRON SEVEN deployed to Fifth Fleet for seven months. She was attached to Region Legal Service Office MIDLANT from May 2010 to June 2012, where she served as the Station Judge Advocate for Joint Expeditionary Base Little Creek-Fort Story and Naval Weapons Station Yorktown-Cheatham Annex. In July 2012, CDR O’Connor reported to Region Legal Service Office MIDWEST as its Professional Development Officer. From June 2013 to June 2014, she also served as the Staff Judge Advocate for Recruit Training Command. CDR O’Connor served as an Assistant Staff Judge Advocate at the United States Naval Academy and as an Adjunct Professor teaching Military Law for the Junior Officer from August until December 2015. She served as an operational attorney within the Office of General Counsel at the National Security Agency/Central Security Service from November 2015 until July 2018. She received an LLM in International Law from the Fletcher School of Law and Diplomacy in May 2019 and subsequently reported to the Office of the Judge Advocate General (OJAG) Code 10 (National Security Law). She served as the Cyber, Space and Intelligence Law Department Head for Code 10 from May 2019 through June 2022.



07 March 2024 (Day 3) – Panel 4: Enhancing Stability Through Information Dominance: U.S. Information Operations and Diplomatic Engagement

Moderator: Lieutenant Commander Blair Kuplic United States Space Command

LCDR Blair Kuplic currently serves as Chief of National Security Law at United States Space Command in Colorado Springs, CO. A native of North Carolina, LCDR Kuplic holds a Bachelor of Arts in International Studies and German with a minor in French from the University of North Carolina at Chapel Hill, a Juris Doctor from the University of North Carolina School of Law, a Master of Arts in National Security and Strategic Studies from the Naval War College, and a Master of Laws from Harvard Law School. LCDR Kuplic completed her first tour in Mayport, FL, at Region Legal Service Office Southeast. From 2016 to 2019, she served as installation judge advocate for Joint Expeditionary Base Little Creek-Fort Story in Virginia Beach, VA. She then reported to United States Pacific Fleet, where she served as Assistant Fleet Judge Advocate for Military Justice, Investigations, and Administrative Law from July 2019 to June 2020, and Deputy Chief of Operational Law from May 2020 to July 2022.



Mr. Jeremy Weinberg U.S. Department of State, Office of Legal Advisor

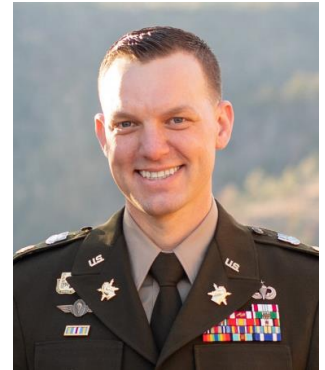
Jeremy Weinberg has been an Attorney-Adviser in the Office of the Legal Adviser at the U.S. Department of State since 2006 and currently covers outer space security topics along with marine and air pollution. Among his other favorite portfolios have been legal issues relating to the European Union and the Balkans, privacy, international trade and intellectual property, and citizenship and consular affairs. He entered federal practice after earning his J.D. at the University of Virginia School of Law, where he served as Submissions Review Editor of the Virginia Journal of International Law (VJIL). Before law school, he was a journalist for the Moscow Times newspaper in Russia and a member of the Goldman Sachs investment research department in London and New York. He graduated from Yale University in 1992 with a B.A. in History and from the London School of Economics in 1994 with an M.Sc. in International History, focusing on European integration. He is a member of the Editorial Advisory Committee for International Legal Materials, published by the American Society of International Law, and has taught a seminar on European Union Law as an adjunct professor at Georgetown and George Mason law schools. He has particular interest in federal agency knowledge management capabilities and Microsoft 365.



07 March 2024 (Day 3) – Panel 4: Enhancing Stability Through Information Dominance: U.S. Information Operations and Diplomatic Engagement

Lieutenant Colonel Isaac Johnson
Command MISO Officer, Information Operations Directorate
(J39), U.S. Space Command

Lieutenant Colonel Isaac Johnson is a United States Army Psychological Operations Officer serving as Acting Chief of Information Operations for US Space Command. He is a former Course Manager and Senior Instructor for the Psychological Operations Qualification Courses at the United States Army John F. Kennedy Special Warfare Center and School, Fort Liberty, North Carolina where he trained over 200 PSYOP Officers for the U.S. Army, Joint Forces, and Allies. He has multiple deployments throughout the Middle East and Central Asia, notably as Officer in Charge of the Military Information Support Team at U.S. Embassy-Kabul, Afghanistan from 2013-14, and Director of Operations for the Information Warfare Task Force-Central from 2020-21. In June 2021, Lieutenant Colonel Johnson became the first PSYOP Officer at US Space Command where he currently leads development of influence operations to support the collective defense of the space domain.



Major Kyle N. Owens
Deputy Staff Judge Advocate, National Security Law Team,
U.S. Indo-Pacific Command

Major Owens is part of the National Security Law Team at Headquarters, U.S. Indo-Pacific Command at Camp Smith, Hawaii. As one of the attorneys assigned to the Office of the Staff Judge Advocate, he advises the commander and staff on international and domestic law, policy, and regulation affecting the combatant command's operations throughout an Area of Responsibility with approximately 375,000 assigned personnel and that encompasses nearly half of the earth's surface. The specific focus of his portfolio includes space, cyber, information operations, special activities, special operations, and targeting. He has deployed as the Staff Judge Advocate to a Special Operation Task Force supporting Operation Pacific Eagle-Philippines. Major Owens has also served as a prosecutor and Special Assistant U.S. Attorney, Marine Corps Air Station Miramar, California; Senior Defense Counsel in Okinawa, Japan; and Deputy SJA, Marine Corps Installations Command-Pacific. Major Owens is a graduate of the University of Texas at San Antonio, Texas Tech University School of Law, the U.S. Army's LL.M. program, Expeditionary Warfare School, and Command and Staff College.



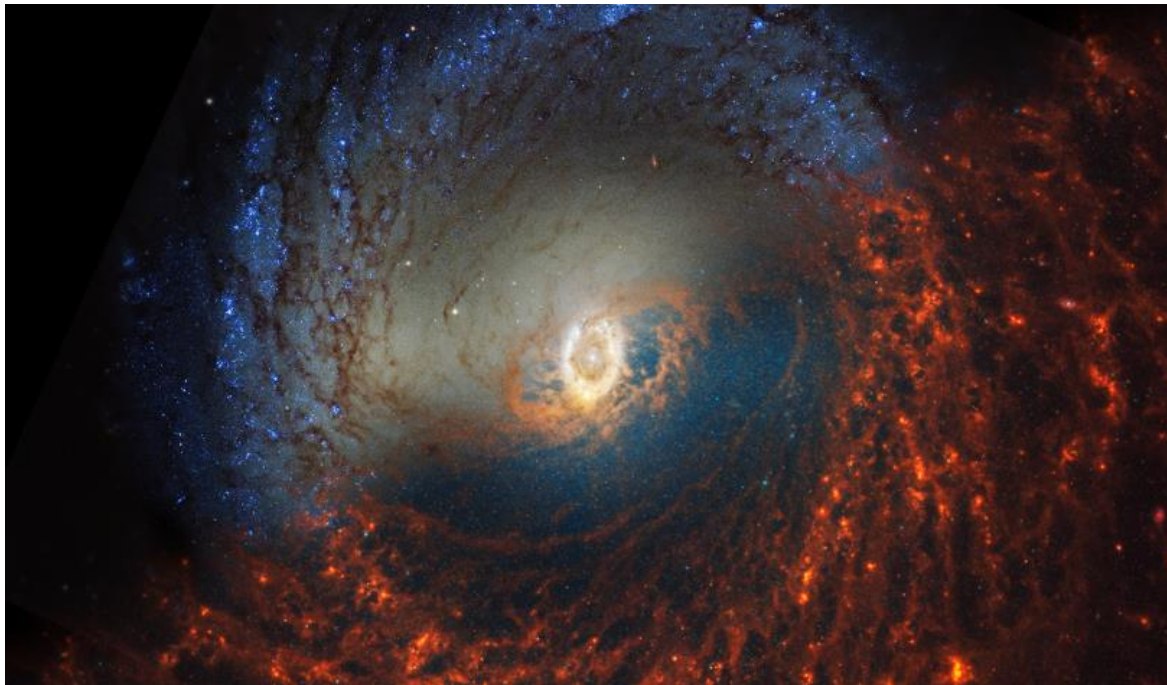
**07 March 2024 (Day 3) – Panel 4: Enhancing Stability Through Information
Dominance: U.S. Information Operations and Diplomatic Engagement**



**Colonel Megan A. Schafer
Director of Public Affairs, U.S. Space Command**

Colonel Megan Schafer is the Director of Public Affairs, United States Space Command, Peterson Space Force Base, Colorado. She is the public affairs advisor to the USSPACECOM commander and command staff responsible for defending U.S. and Allied interests in the space domain while providing space-enabled combat effects to joint warfighters around the world. She leads the development of communication strategies showcasing Soldiers, Marines, Sailors, Airmen, and Guardians operating ground and space-based systems around the world.

Colonel Schafer received her commission from Air Force Reserve Officer Training Corps Detachment 650, Ohio University, Athens, Ohio, as a distinguished graduate in 2001. Prior to assuming her current assignment, she was a student at the Dwight D. Eisenhower School for National Security and Resource Strategy at Fort McNair, Washington, D.C. She has held a variety of positions at the wing, Field Operating Agency, Major Command and Air Staff level, as well as in Joint and Coalition environments. While in Iraq, she supported numerous combat missions, providing communication lines of effort that enhanced coalition operations and undermined enemy actions. During her time on the Air Staff, Colonel Schafer served as the Strategic Communication Advisor for the Secretary of the Air Force and the Air Force Chief of Staff.





07 March 2024 (Day 3) – Closing Remarks



Colonel Robert (“Bobby”) Hall Staff Judge Advocate, United States Space Command

Colonel Robert “Bobby” Hall is the Staff Judge Advocate for United States Space Command, the Unified Combatant Command responsible for conducting operations in, from, and to space to deter conflict, and if necessary, defeat aggression, deliver space combat power for the Joint/Combined force, and defend U.S. vital interests with allies and partners.

Originally from St. Petersburg, Florida, Colonel Hall worked in private industry as an electrical engineer prior to attending law school at the University of North Carolina at Chapel Hill, where he served as Editor-in-Chief of the North Carolina Journal of International Law and Commercial Regulation. Colonel Hall became a commissioned officer by direct appointment after his admission to the North Carolina Bar in 1997. After entering the Air Force, he served as trial and defense counsel, as well as chief of military justice at the wing and numbered air force levels. Colonel Hall also deployed as a joint task force deputy staff judge advocate and served in the air and space operations centers of two geographic combatant commands. Additionally, he served staff judge advocate tours at the major command, numbered air force, wing, and group levels in the U.S., Europe, and Middle East. Prior to his current position, Colonel Hall was the Staff Judge Advocate for Air Force Global Strike Command, advising the major command responsible for U.S. Air Force bomber, intercontinental ballistic missile, and nuclear command, control, and communications forces.





05 & 06 March 2024 (Days 1 & 2) – Luchtime Ethics Professional Responsibility

Major Tanisha T. Bramwell-Boose

Assistant Professor of Law, USAF Academy Department of Law

Major Tanisha T. Bramwell-Boose is an Assistant Professor at the Department of Law (DFL), United States Air Force Academy. The DFL team consists of 20 faculty and staff that engage in the design and teaching of 19 core and elective law courses, in scholarship across a variety of disciplines, in the legal support to the administration of the Cadet Honor System, and in the development of officers of character for the U.S. Air Force. Major Bramwell-Boose received a direct commission as an Air Force Judge Advocate in April 2017 and entered active duty in May 2017. Prior to her current assignment, Major Bramwell-Boose served as an Area Defense Counsel, Chief of Military Justice, Chief of Adverse Actions, and Special Assistant United States Attorney. She is admitted to practice in the state of New York.



Professor Glen M. Vogel

Distinguished Visiting Professor of Law, U.S. Air Force Academy

Professor Vogel graduated from Widener University with a B.S. in civil engineering and later achieved his Professional Engineer's License from the State University of N.Y. He earned a J.D. with honors from the St. John's University School of Law where he was a member of the Law Review and a contributor to the New York State Environmental Lawyer periodical. He is admitted to practice law in New York State and the federal Eastern and Southern Districts of New York. Professor Vogel has had numerous articles published in prestigious law reviews and well-known practitioner's journals in the areas of constitutional law, taxation, ethics, environmental law, litigation practice & skills, evidentiary rules, securities law, and pedagogy. Other legal scholars and courts around the country have cited to his work. As a presenter, he has won the Best Paper Award twice (2011 and 2013) and has presented his scholarship at more than a dozen professional/academic conferences for organizations such as the Constitutional Scholars, the American Bar Association, the National Business and Economics Society, the North East Academy of Legal Studies in Business and the Northeast Decision Sciences Institute.





Conference Committee

Lieutenant Colonel Timothy Goines **Senior Military Faculty, USAF Academy Department of Law**

Lt Col Timothy M. Goines serves as a Senior Military Faculty and Assistant Professor of Law, United States Air Force Academy, Colorado Springs, Colorado, where he teaches Cyberlaw, Law for Air Force Officers, and the Legal Studies Capstone Course. He also serves as the Director of USAFA's Law, Technology, and Warfare Research Cell. Lt Col Goines was born and raised in Omaha, Nebraska. In May of 2004, he graduated Summa Cum Laude from Creighton University with a Bachelor of Science degree in Mathematics. He was commissioned as a Second Lieutenant in May of 2004 through Air Force R.O.T.C. Detachment 470, University of Nebraska at Omaha. In May 2009, Lt Col Goines graduated Cum Laude from Baylor University, School of Law. Throughout his career, Lt Col Goines has served in various roles as a Judge Advocate – as an Assistant Staff Judge Advocate, an Area Defense Counsel, a Deputy Staff Judge Advocate, and now as an Assistant Professor of Law. Just prior to his assignment at the Air Force Academy, Lt Col Goines received a Master of Laws Degree in Cyber, Space, and Telecommunications Law at the University of Nebraska Law School in May 2016. In February 2017, Lt Col Goines completed his Masters of Arts Degree in Military Operational Art and Science (with Highest Academic Distinction) from Air Command and Staff College.



Professor Jeffrey Biller **Associate Professor of Cyber Law & Policy, CyberWorx, USAF Academy**

Jeff Biller is an Associate Professor of Cyber Law and Policy with CyberWorx, a division of the Office of Research at the United States Air Force Academy (USAFA). Through partnerships with government, academia, and industry, CyberWorx develops innovative solutions to the Department of the Air Force's most complex problems. He is also the co-director of USAFA's Law, Technology, and Warfare Research Cell. Jeff teaches in USAFA's Departments of Law and Political Science, focusing on military uses of cyber, space, and emerging technologies. Professor Biller is a retired Lieutenant Colonel in the United States Air Force, where he served over twenty years as a SERE Instructor, Intelligence Officer, and Judge Advocate. Prior to joining the Air Force Academy, he served as a military professor and Director for the Law of Armed Conflict at the Stockton Center for International Law, part of the US Naval War College. His previous assignments include advising the Air Force's cyberspace wings and its component to the intelligence community.

Conference Chair: Professor R. Aubrey Davis **Assistant Professor of Law, USAF Academy Department of Law**

Prof. R. Aubrey Davis is an Assistant Professor of Law at the United States Air Force Academy (USAFA). He serves as the Director of Law and Emerging Technology for USAFA's Law, Technology, and Warfare Research Cell (LTWRC). Prof. Davis teaches in USAFA's Department of Law focusing on international law, space, cyberspace, and emerging technology curricula. He developed a curriculum entitled Law and Emerging Technology which he is currently teaching at USAFA. His research interests focus on the nexus between technology, law, ethics, and warfare with particular focus on quantum information sciences, artificial intelligence, and biotechnology. Prof. Davis served as an Army Aviation Officer, Intelligence Officer and as a Judge Advocate over the span of a 32-year career. He finished his active-duty career as the Chief, Cyberspace Law at Air Combat Command, Langley AFB, VA where he served as an advisor to the Air Force's operational cyberspace wings and their components to the Intelligence Community.





Conference Committee

Major Jonathan Sawmiller **Chief of Operations Law, United States Space Command**



Maj Sawmiller is the Chief of Operations Law, Office of the Staff Judge Advocate, United States Space Command, Peterson SFB, Colorado. Maj Sawmiller is responsible for advising a four-star combatant commander, his staff, and joint operations center on compliance with international and domestic law and policy for global space operations, activities, and missions. Maj Sawmiller enlisted in the Idaho Air National Guard in 2005, where he specialized in CBRN defense. While enlisted, he deployed twice, operating CBRN detection networks and searching for WMDs in Iraq. During law school, Maj Sawmiller was a Law Review editor, interned for the U.S. Army JAG Corps, and worked as a limited license prosecutor in Ada County, Idaho. He also worked as a DOD contractor administering the Navy-Marine Corps Intranet, and clerked for the Honorable Daniel Eismann, Chief Justice of the Idaho Supreme Court. Maj Sawmiller transferred to the Regular Air Force and received a direct commission as a Judge Advocate in December 2011. He is admitted to practice law before the Supreme Court of Idaho and the United States Court of Appeals for the Armed Forces. Prior to his current assignment, Maj Sawmiller served in a variety of judge advocate roles, including Area Defense Counsel, Rule of Law Advisor, Cyberspace Operations Legal Advisor, and Deputy Staff Judge Advocate of an F-15E fighter wing.



Major Sandra Ahinga **Chief of National Security Law, U.S. Space Command**

Major Sandra Ahinga is currently the Chief of Administrative and Civil Law at U.S. Space Command. Prior to her arrival she earned an LL.M. in National Security Law with a Space Law focus from Georgetown University Law Center in Washington DC. While at Georgetown Major Ahinga served as a peer reviewer for the Journal on National Security Law and Policy, the world's only peer reviewed journal devoted to the subject matter. During her time at GULC, MAJ Ahinga pioneered a LL.M. subject matter specific (Space Law) externship in the Office of Legal Policy at the U.S. Department of Justice. Previous assignments include: Chief, National Security Law, U.S. Army Special Operations Command, Fort Bragg, North Carolina; Government Appellate Counsel, United States Army Legal Services Agency, Fort Belvoir, VA; Chief of Justice, United States Forces – Afghanistan, Bagram Airbase, Afghanistan; Operational and Administrative Law Attorney, 1st Armored Brigade Combat Team, 1st Cavalry Division, Fort Hood, Texas; Trial Counsel, 1st Armored Brigade Combat Team, 1st Cavalry Division, Fort Hood, Texas; Trial Counsel, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons, Belgium; Administrative Law Attorney, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons, Belgium; and Chief, Client Services, 21st Theater Sustainment Command – Supreme Headquarters Allied Powers - Europe, Mons. MAJ Ahinga has deployed to Afghanistan in support of Operation Freedom's Sentinel and to Korea as part of the Army's Regionally Aligned Force. MAJ Ahinga is a graduate of the University of California, San Diego (BA, Sociology), the University of San Diego School of Law (JD), and the U.S. Army Judge Advocate General Legal Center and School (LL.M., Military Law).



Conference Committee

Major Trent Bradford

Assistant Professor of Law, USAF Academy Department of Law

Major Trent Bradford is an Assistant Professor of Law at the United States Air Force Academy where he is the Director of Cyber Programs in the 'Law, Technology & Warfare Research Cell.' He teaches Cyber Law and Law for Air Force Officers, is an assistant coach for the USAFA Moot Court team and is the Officer Representative for the USAFA men's tennis team. Maj Bradford received his commission in April 2011 through ROTC Detachment 855 in Provo, Utah. He holds a J.D. from Brigham Young University (J. Reuben Clark Law School) and a LL.M. in Space, Cyber, and Telecommunications Law from the University of Nebraska-Lincoln. Prior to joining the team at USAFA, Maj Bradford spent most of his career in military justice, starting out at JBSA-Lackland then later serving overseas as Area Defense Counsel, Senior Trial Counsel, and Chief Circuit Trial Counsel. He also served as deputy SJA at Fairchild AFB and completed deployments to Afghanistan and Iraq, working detainee operations and dynamic targeting.



Major Matthew Ormsbee

Assistant Professor of Law, United States Air Force Academy

Major Matthew H. Ormsbee is an Assistant Professor at the Department of Law (DFL), United States Air Force Academy. The DFL team consists of 20 faculty and staff who engage in the design and teaching of 19 core and elective law courses, in scholarship across a variety of disciplines, in the legal support to the administration of the Cadet Honor System, and in the development of officers of character for the U.S. Air Force and Space Force. Maj Ormsbee received a direct commission as an Air Force judge advocate in November 2016 and entered active duty in January 2017. He completed Commissioned Officer Training in February 2017 and the Judge Advocate Staff Officer Course in April 2017. He served as an Assistant Staff Judge Advocate at Nellis AFB and Creech AFB, Nevada.

Thereafter, he was the Chief of Adverse Actions and Operational Law, and later the Area Defense Counsel at Misawa Air Base, Japan. Most recently, he earned an LL.M. degree in air and space law at the Institute of Air and Space Law, McGill University, in Montreal, Canada.

Ms. Melissa Murphy

Law Office Manager, Office of the Staff Judge Advocate, U.S. Space Command

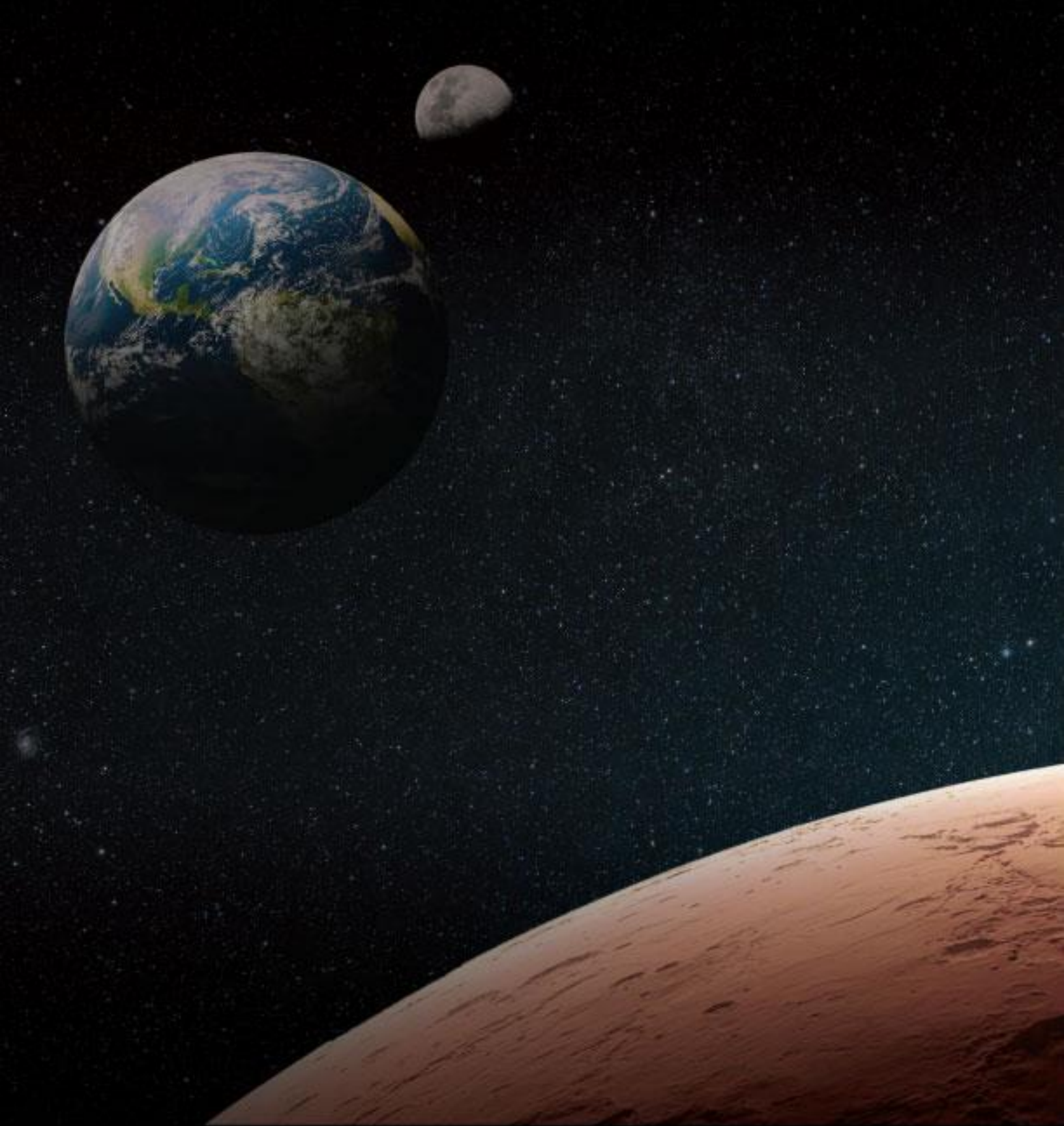
Ms. Melissa Murphy is the Law Office Manager for the OSJA, U.S. Space Command in Colorado Springs, CO.

Ms. Madison Walker

Space Policy Fellow, IFC, U.S. Air Force Academy

Ms. Madison Walker is currently a space policy fellow for the Institute for Future Conflict. In this position, she is teaching the space policy course at USAFA that is required for all Space Warfighting Minor cadets. Ms. Walker is also the Deputy Director of the Eisenhower Center for Space and Defense, the 65th Academy Assembly Director, and USAFA's National Strategic Security Studies Partnership representative.





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AIR FORCE ACADEMY