

Speaker Biographies

Andrew Aldrin

Professor, FIT



He directs the ISU-Center for Space Entrepreneurship and Commerce at FIT as well as the Aldrin Space Institute. Prior to FIT, Dr. Aldrin was President of Moon Express. Before that, Dr. Aldrin was Director of Business Development and Advanced Programs at United Launch Alliance. He held similar positions at

Boeing's NASA Systems, and Launch Services business units. He has also served as a Resident Consultant at the RAND Corporation and Professional Research Staff Member at the Institute for Defense Analyses. Dr. Aldrin holds a Ph.D. in Political Science from UCLA, an MBA from TRIUM, a MA in Science Technology and Public Policy from The George Washington University, and a BA in International Relations from the University of California at Santa Barbara.

Greg Autry

Assistant Professor of Clinical Entrepreneurship & Director, Southern California Commercial Spaceflight Initiative, Lloyd Greif Center for Entrepreneurial Studies, Marshall School of Business, University of Southern California



Greg Autry is an educator, writer and technology entrepreneur. He researches entrepreneurship in context of commercial space at the University of Southern California where he is the founding director of the Southern California Commercial Spaceflight Initiative. During the recent presidential

transition, Dr. Autry served on the NASA Agency Review Team and as then as interim White House Liaison at NASA. Dr. Autry currently serves on the FAA's Commercial Space Transportation Advisory Committee (COMSTAC). He is the author of *An Analysis of U.S. National Competitive Advantage in Human Orbital Spaceflight Markets*, an influential report prepared for the FAA Office of Commercial Space Transportation (AST) and published in the *New Space Journal*. His articles on space, technology and trade have been featured in *New Space Journal*, *San Francisco Chronicle*, *LA Times*, *Washington Times*, and *Space News*. His comments on space and economics have been featured on the Discovery Channel, BBC and CNN. Dr. Autry is also regular contributor at Forbes.

M. Brian Barnett

Founder and CEO, Solstar Space Company



M. Brian Barnett is a serial entrepreneur with 30 years' experience at NASA, KPMG, and in the commercial space industry. He is Founder and CEO of Solstar Space Co., the first internet service provider for people, things, and machines in space. Mr. Barnett began his career at NASA/Marshall Space Flight

Center where he provided Space Shuttle payload integration services at the Payloads Project Office. He also provided astronaut crew training in the Mission Operations Laboratory for Spacelab missions. At Johnson Space Center, he worked in the Missions Operations Directorate, and later worked on JSC's 1992 Strategic Plan. He also managed a contract to document all Space Shuttle operations processes as directed by Congress after the Challenger accident. Later, as a management consultant for KPMG's Space and High Technology group, he wrote dozens of business plans and market assessments for commercial space companies. This is the group that very early and accurately, predicted that GPS applications would grow into the huge market it is today. Barnett wrote the initial business plan for the spaceport that eventually became Spaceport America. He began launching payloads out of Spaceport America beginning in 2011. On April 29th, 2018, Solstar demonstrated the first commercial wi-fi service in space and Tweet from space aboard Jeff Bezos' Blue Origin's New Shepard rocket, using Barnett's patent-pending technology.

Tim Chen

Program Manager, NASA Flight Opportunities



Tim Chen serves as the Program Manager for NASA Flight Opportunities Program. The Flight Opportunities program is a STMD Level 2 program office located at Armstrong Flight Research Center (AFRC) in Edwards, CA. In this role, Tim leads to execute Program's goals to mature exploration and other high priority space technologies through flight demonstration in relevant environments, and to develop enabling technologies to accelerate-to-market affordable suborbital and small satellite launch capabilities. Prior to joining AFRC, Tim was at NASA Marshall Space Flight Center (MSFC) where he served in various leadership roles in Space Launch Systems (SLS) and in Commercial Crew Program (CCP). During his tenure, he was detailed to NASA HQ as STMD Program Executive for Technology Demonstration Mission (TDM) program.

Speaker Biographies

Ian Christensen

Director of Private Sector Programs, Secure World Foundation



He has eight years of professional experience as a consultant and analyst focused on international and domestic commercial space, satellite, and aviation markets. Prior to joining SWF, Mr. Christensen worked at leading space-sector consulting firms Futron Corporation and Avascent. In these positions he managed or served in lead analysis roles on market, business planning, and forecasting studies for numerous commercial space sector clients in the United States, Israel, and Europe. For government clients, Ian has provided space-related strategic and analytic services for NASA, the Federal Aviation Administration (FAA), the United States Trade and Development Agency (USTDA), the Japan Aerospace Exploration Agency (JAXA), and the Government of Australia. Mr. Christensen has supported consulting engagements with clients in Australia, Israel, the Isle of Man, Japan, and South Korea; and led in-country work in Brazil, Burkina Faso, Europe, and Japan.

Steven W. Clarke

Deputy Associate Administrator for Exploration, NASA's Science Mission Directorate



He serves as the agency's interface between the NASA mission directorates, the scientific community, and other external stakeholders in developing a strategy to enable an integrated approach for robotic and human exploration within NASA's Exploration Campaign. Clarke recently returned to NASA after serving as a senior policy analyst with the Office of Science and Technology Policy in the Executive Office of the President, where he was responsible for leading a number of important initiatives, including space weather. He led the Space Weather Operations, Research and Mitigation (SWORM) Subcommittee as the Office of Science and Technology Policy (OSTP) co-chair. Mr. Clarke was previously the Director of the Heliophysics Division, responsible for leading the formulation and implementation of a national research program, through scientific flight investigations and research grants, to understand the Sun, its interactions with the Earth and the solar system, and how the observed phenomena impact life and society.

Kelvin Coleman

Acting Associate Administrator for Commercial Space Transportation, FAA



In this role, he provides executive leadership and oversight of the Office of Commercial Space Transportation (AST) to ensure achievement of AST's principle mission objectives of public safety, and advancement of U.S. commercial space transportation. Kelvin has more than 20 years of experience in AST, having served previously as Acting Deputy Associate Administrator, Chief of Staff, Senior Technical Advisor for Operations Integration, Program Lead for Space and Air Traffic Integration, and Special Assistant to the Associate Administrator. Prior to joining AST, he worked for the U.S. Naval Air Systems Command (NAVAIR) as both a systems engineer, and as a guidance, navigation, and control engineer for several weapon system acquisition programs. Kelvin is a graduate of the U.S. Department of Agriculture's Executive Training Program and holds a B.S. in Electronics and Computer Engineering from George Mason University, and an M.B.A. from Marymount University.

Ariane Cornell

Head of Astronaut Strategy & Sales and Head of North American New Glenn Sales, Blue Origin



Ariane Cornell works on the Strategy and Business Development team for Blue Origin, LLC, a developer of vehicles and technologies to enable human space transportation. She is the head of astronaut strategy and sales as well as New Glenn commercial sales for the Americas. Ariane earned an MBA from Harvard University and a Bachelor of Science degree with honors from Stanford University.

Speaker Biographies

Tom Cremins

Acting Chief of Staff and Associate Administrator for Strategy and Plans, NASA



Tom Cremins became the Associate Administrator for Strategy and Plans in November 2015, and since April 2018 has also served as NASA's acting chief of staff. He had served as senior advisor to the administrator for strategy and policy implementation since April 2014. Before that, he worked in a range of critical and leading edge governmental and executive assignments. His most recent position previously was serving as the director, legislative liaison division, at NASA Headquarters. Between September 2008 and December 2010, he served as the director, studies and analysis division in the NASA administrator's office. In this capacity, he oversaw agency-wide strategic assessments, analysis, and studies on the breadth of NASA's programs, institutions and external relationships. In 2010, as a fellow on the senate commerce committee, he played an instrumental role in the development and passage of the 2010 NASA Authorization Act.

Frank DeMauro

Vice President and General Manager, Advanced Programs Division, Northrop Grumman



Advanced Programs Division where he is responsible for the program execution, business development and financial performance of the company's Human Space Systems, Satellite Servicing and Commercial Communication Satellite business segments. These business segments include critical Northrop Grumman programs such as NASA's Commercial Resupply Services (CRS) and Mission Extension Vehicle (MEV) programs. Previously, Mr. DeMauro managed the Human Space Systems business area and served as the Program Director of the CRS program where he managed the development, production and delivery of multiple Cygnus spacecraft and oversaw several successful cargo delivery missions. A long time Northrop Grumman employee, Mr. DeMauro has also held the position of Vice President of Engineering as well as numerous leadership and program management positions in Northrop Grumman's commercial communications satellite group.

Dan Dumbacher

Executive Director, American Institute of Aeronautics and Astronautics (AIAA)



Before joining the AIAA staff in January 2018, Dumbacher was a Professor of Engineering Practice in the School of Aeronautics and Astronautics at Purdue University, where he taught courses in systems thinking, systems engineering, and space policy. Prior to Purdue, Dumbacher served as the Deputy Associate Administrator, Exploration Systems Development Division, Human Exploration and Operations Mission Directorate at NASA Headquarters. In that capacity, he provided leadership and management as the Program Director for Exploration Systems Development, which included: the Space Launch System, Orion, and Ground Systems Development and Operations development and integration efforts. He led a national team of over 5,000, spanning all NASA centers and industry, and was responsible for a \$3 billion annual budget.

Ven Feng

Manager, International Space Station (ISS) Transportation Integration Office, NASA JSC



Ven C. Feng serves as Manager of the International Space Station (ISS) Transportation Integration Office at the NASA/Johnson Space Center. He leads a civil servant and contractor team in integration and assessment of all launch vehicles and spacecraft which support the ISS Program. These spacecraft include the Orbital ATK Cygnus, Sierra Nevada Dream Chaser, SpaceX Dragon, Roscosmos Soyuz and Progress, and JAXA HII Transfer Vehicle. Mr. Feng has over 25 years' experience in aerospace and human spaceflight with NASA and private industry supporting the ISS, Space Shuttle and Spacelab.

Speaker Biographies

Kelly Garehime

Associate General Counsel, United Launch Alliance



In her role at ULA, she is the regulatory affairs/Law Department focal point. She is responsible for ULA's FAA license applications and advises the company on FAR Parts 12 and 15 compliance issues. She advises Prime Contracts, Supply Chain, and IT Security on regulatory changes and requirements, including associated risks and negotiation strategies and by supporting Defense Contract Audit Agency (DCAA) audits. She is also ULA's Corporate Secretary and is the legal focal point for intellectual property (IP) protection. Prior to joining ULA, Ms. Garehime worked in the Government Contracts department of Dentons, an international law firm, where she had a focus in cost issues, business systems compliance, and litigating claims before the boards of contract appeals.

Mark Gittleman

President & CEO, Alpha Space



Prior to joining Alpha Space, Mr. Gittleman was the Executive Vice President of Intuitive Machines, LLC and a long time executive with Oceaneering International, Inc. (NYSE: OII). He was the division VP & GM of Oceaneering Space Systems (OSS) and was instrumental in that division's long-term success, starting with its founding. He also led one of OII's large subsea oilfield products divisions which designed, manufactured, and serviced subsea equipment, including deep water control and distribution systems. Mr. Gittleman serves on several advisory boards, including the Subsea Valley Technology Cluster in Oslo, Norway; the University of Houston, Clear Lake College of Engineering and Computer Science; and the Bay Area Houston Economic Partnership (BAHEP).

Wayne Hale

Director of Human Spaceflight & Energy Services, Special Aerospace Services



Wayne Hale is Director of Human Spaceflight & Energy Services for Special Aerospace Services of Boulder, Colorado where he consults with a variety of commercial space organizations. Mr. Hale currently serves as an Interim Chairman of the Human Exploration and Operations Committee of the NASA Advisory Council which by federal law gives direction and advice to the NASA administrator on policy and strategy for the nation's federal space program. Mr. Hale holds a Bachelor of Science in Mechanical Engineering from Rice University and a Master of Science in Mechanical Engineering.

Pat Hynes

ISPCS Curator



In 2005, Pat Hynes co-founded the International Symposium for Personal and Commercial Spaceflight (ISPCS) with Bill Gaubatz and is currently the Curator of ISPCS. It was her work on Spaceport America in the early 1990's that sparked her interest in the viability of opening space to a broader audience. The Symposium has brought thousands of leaders in the commercial space industry together annually as we grow the commercial space industry together. Dr. Hynes is the Executive Director of the Commercial Space Progress Foundation, Director of the New Mexico FAA Center of Excellence for Commercial Space Transportation, an AIAA Associate Fellow and an Emerita professor. She is continuing her research at New Mexico State University. Pat retired as the Director of the New Mexico Space Grant Consortium (NMSGC), and NASA Established Program for Competitive Research (EPSCoR) on July 31st, 2018.



Speaker Biographies

Kathryn Lueders

Program Manager, NASA's Commercial Crew Program



In this role, she aids in the execution of the agency's goals to help private companies develop a new U.S. capability to carry astronauts into low-Earth orbit and eventually take crews to the International Space Station, or ISS. She oversees program facilitation of commercial spacecraft development and certification to enable the safe transportation of NASA astronauts. She performed many aspects of the same role while serving as deputy program manager for the program manager and during a 5-month term as the acting program manager. The program is based at NASA's Kennedy Space Center in Florida and has staff at several of NASA's other field centers including Johnson Space Center in Houston. Lueders previously served as the ISS Program's Transportation Integration manager. In that post, she managed the commercial cargo resupply services (CRS) to the space station and was responsible for oversight of the international partner vehicles – the European Space Agency's Automated Transfer Vehicle (ATV), the Japanese Space Agency's H-II Transfer Vehicle (HTV), and the Russian Soyuz and Progress spacecraft.

Steve Lindsey

VP Space Exploration Systems, Sierra Nevada Corporation's Space Systems



A former U.S. Air Force (USAF) pilot and NASA astronaut with more than 30 years of flight test experience, Steve Lindsey is the Vice President of Space Exploration Systems for SNC. Lindsey oversees design, development, testing and operational employment of the *Dream Chaser*[®] spacecraft, a modern, reusable, lifting-body space system for uncrewed and crewed transportation to low-Earth orbit. Additionally, he has responsibility for development and program execution of Dream Chaser derived systems and products.

Victor Luo

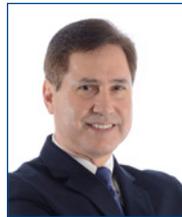
Ops Lab Lead, NASA Jet Propulsion Laboratory



As Lead for the Operations Laboratory at the Jet Propulsion Laboratory, Mr. Luo is developing highly innovative and effective space mission operations products with an emphasis on human-computer interactions and natural user interfaces. Mr. Luo produced the first application on the Microsoft HoloLens platform for Mars rover operations, astronaut assistance on the International Space Station, and spacecraft mechanical design. Through key relationships with industry, Mr. Luo is applying pre-market technologies, influencing future technology roadmaps, and establishing a leadership position for NASA in the application of virtual and augmented technology for space. He is also managing industry partnerships that are bringing NASA's mission of exploration to the public and to STEM audiences.

Arturo Machuca

General Manager, Ellington Airport and Houston Spaceport, Houston Airport System



Arturo Machuca is the General Manager of the Houston Airport System's Ellington Airport. Machuca oversees the daily operations and the development and implementation of policies and procedures at Ellington Airport. He is also the lead on the Houston Spaceport project. With over 30 years of sales and marketing experience in the aviation industry, Arturo joined the Houston Airport System in 2009. His prior responsibilities included economic development, industry affairs and business relations for all three airports. Over the last three years, Machuca has been instrumental in the licensing and development of the Houston Spaceport at Ellington Airport. Through his efforts, Machuca has executed the Space Act Agreement between the Houston Spaceport and NASA – Johnson Space Center, negotiated the acquisition of the Houston Spaceport's first dedicated infrastructure—the Houston Aerospace Support Center, and led the SpaceCom Expo, the first Commercial Space Conference in Houston.

Speaker Biographies

Jeffrey Manber

Chief Executive Officers, NanoRacks



Jeffrey has served as the CEO of NanoRacks from 2009 onwards, and more recently, has taken on the role of chairman of the board of XO Markets, the parent company of NanoRacks. Jeffrey has steered the growth of NanoRacks from a garage space in Webster, Texas to the only commercial space station company with customers. Under Jeffrey's leadership, NanoRacks was a pioneer, and now the leader, in the commercial market for low-Earth orbit utilization. For the future, Jeffrey is increasingly focused on populating the solar system with commercial space station platforms, owned and operated by NanoRacks. Today, NanoRacks has customers in over 30 countries, ranging from governmental agencies to universities and companies. In 2017, Jeff and his team were pleased to have brought the first-ever commercial Chinese experiment to the International Space Station. NanoRacks is focused now on building and marketing commercial hardware and services on a variety of platforms, from Near Space, Suborbital, low-earth orbit and into Deep Space.

John P. Mulholland

Vice President and Program Manager Commercial Crew Programs Space Exploration, Boeing



He leads Boeing's efforts on commercial crew and cargo programs, including our Commercial Crew Development (CCDev) Space Act Agreement. Mulholland ensures that innovations and capabilities from across Boeing are used in development of space transportation vehicles to support NASA and commercial customers. Prior to his present position, Mulholland was the vice president and program manager for Boeing's Space Shuttle Program. Mulholland lead Boeing in its role as the major subcontractor to United Space Alliance (USA) in support of its operations contract with NASA's Space Shuttle Program. He was responsible for overall direction and successful execution of Boeing's Space Shuttle Program.

Joeletta Patrick

National Space Grant College and Fellowship Program Acting Manager and Minority University Research and Education Project (MUREP) Manager, Education Office, NASA HQ



She began her career in the NASA family at Johnson Space Center. She worked as a flight controller for the International Space Station and as an engineer doing time-phased power analysis. Patrick returned to the Mission Operations Directorate and became a civil servant in 2004 as a flight controller in the Electrical Power System group. Patrick's career has been marked by positions of leadership, new challenges and steadily increasing responsibility. In 2010, after working as a certified flight controller, she served as the project manager of Johnson's Minority University Research and Education Project (MUREP). In 2011, she was selected to serve at NASA Headquarters as a MUREP Education Fellow in Washington, D.C., which led her to be selected as the agency manager for MUREP in 2013. In 2016, Patrick was selected to be a Senior Fellow at the White House Initiative on Historically Black Colleges and Universities where she worked on building the capacity of the nation's HBCUs. In January 2017, Patrick returned to her home agency, NASA, to resume her position as the MUREP manager.

Audrey Powers

Deputy General Counsel, Blue Origin



Audrey Powers is the Deputy General Counsel for Blue Origin, a commercial space company operating and developing two launch vehicle programs as well as pursuing other advanced development initiatives in space. As Blue Origin's Deputy General Counsel, Ms. Powers handles a wide variety of legal matters, including major supplier and customer contract negotiations, real estate and launch site development, FAA licensing and regulatory affairs, legislative policy matters, corporate governance, human resources and labor and employment law. Prior to joining Blue Origin, Ms. Powers worked in private practice for aerospace and high tech clients, specifically in the areas of export controls, regulatory affairs.

Speaker Biographies

Michael Provenzano

President, CubeRover



Mike is President and a member of the CubeRover founding team. His expertise in the space industry stems from an NSF funded project he founded and led focused on electromagnetic transportation from the lunar surface, in addition to working on Boeing's planning team for the Space Launch System. In

2016 he co-founded and led Students At Tepper for Astronautics, Rockets, and Space (STARS), a 90+ student organization at Carnegie Mellon University that connects passionate students with companies in the space industry. Mike joins CubeRover with an eagerness to create partnerships among the international space community and enable new opportunities. Mike is recognized in the space industry as an emerging entrepreneur. In 2018 he was selected as a delegate of the Space Generation Advisory Council's Fusion Forum for his contribution to the global space economy. More recently, Mike was selected as one of the Top 100 Global MBAs by Poets&Quants, a renowned business publication.

Dan Rasky

Chief, Space Portal Office, and Senior Scientist/Engineer, NASA Ames Research Center



Dan Rasky is the co-founder and chief of the Space Portal, which has had a significant role in establishing several notable and successful NASA programs, including the Commercial Orbital Transportation Systems (COTS) program, the Vascular Tissue Centennial Challenge, and the Frontier Development Lab. He is recognized as an expert on advanced entry systems and thermal protection materials. In the 1990s, he and his research colleagues at NASA Ames invented a heat-shield material called Phenolic Impregnated Carbon Ablator (PICA). In 2009, Rasky completed a one-year Interagency Personnel Assignment (IPA) with the Space Grant Education and Enterprise Institute, serving as a senior research Fellow supporting emerging space companies. One of these companies was Space Exploration Technologies Corp. (better known as SpaceX). With Rasky's assistance and expert guidance, in 2010 the Falcon-9 rocket carried the Dragon capsule with its SpaceX fabricated PICA-X primary heat shield into space followed by a successful re-entry and return. All SpaceX Dragon capsules since have used PICA-X as their primary heatshields. In addition to the SpaceX Dragon, Rasky has made significant contributions to flight hardware for nine NASA missions, including the Stardust Comet Sample Return mission which set the record for the fastest entry ever of a man-made object at earth, at just under 13 km/sec. PICA also served as the primary heat-shield for the very successful Mars Science Laboratory (MSL) Lander mission and is the primary heatshield for the current Osiris-Rex asteroid sample return mission.



Benjamin Reed

Director of Commercial Crew Mission Management, SpaceX



Benjamin "Benji" Reed is the Director of Crew Mission Management at SpaceX. In this role, he is helping spearhead the company's development and certification efforts for the Crew Transportation System, including the Dragon spacecraft, Falcon 9 rocket, ground systems, and operations. Prior to this position, Benji was a Mission Manager for Dragon cargo missions to the International Space Station, including the CRS-3 mission which carried the first science payloads in the Dragon trunk. A native of Boulder, Colorado, Benjamin graduated from the University of Colorado with a degree in Mathematics, working at the Center for Astrophysics and Space Astronomy on programs including the Far Ultraviolet Spectrographic Explorer and the Cosmic Origins Spectrograph. He lives in Los Angeles, California with his wife and three children.

Speaker Biographies

Bob Richards

Vice President, Human Spaceflight Systems,
Northrop Grumman Innovation Systems Sector



Mr. Richards is responsible for Strategy and Business Development for the Advanced Programs Division including Civil Space, Human Spaceflight, and Deep Space Exploration business areas. Northrop Grumman's Human Spaceflight activities include the Cargo Resupply Services for the International Space

Station as well as future commercial and service based activities in low earth orbit. Derivative products will support deep space and cislunar exploration. Mr. Richards has also been the Northrop Grumman lead for several international new business initiatives. Before the Advanced Programs management responsibilities, he was in charge of customer satisfaction, mission success, and financial performance of Pegasus and Taurus XL Space Launch Vehicles. He has managed a successful launch record including 39 Pegasus missions and 7 Taurus missions. These vehicles were designed to provide commercial low cost access to space. NASA continues to be a primary user of these vehicles to launch small science satellites.

Dave Ruppel

Director, Colorado Air and Space Port



Dave Ruppel is the Director of Colorado's Air and Space Port located at the former Front Range Airport. A career Naval Officer and Helicopter Aviator who retired from the Navy in 2005, he established a second career as an Airport Manager at Yampa Valley Regional Airport near Steamboat Springs Colorado. During his

nine year tour there he excelled in commercial airport development and created a world class resort airport serving the Yampa Valley and the resort communities. Mr. Ruppel was hired in November of 2014 to head Front Range Airport and bring the Spaceport licensing effort to completion. His efforts have helped to move the Air and Space Port closer to self sufficiency and resulted in the Colorado Air and Space Port's receipt of its license as the 11th U.S. Commercial Spaceport on August 17, 2018. Mr. Ruppel has an enduring passion for all aspects of Space operations and is developing Colorado's Air and Space Port to be the premier Commercial Space and Aerospace center in the United States.

Caryn Schenewerk

Senior Counsel and Senior Director, Space Flight Policy,
SpaceX



Caryn Schenewerk is Senior Counsel and Senior Director of Spaceflight Policy for Space Exploration Technologies Corp. (SpaceX) where she mainly focuses on civil and commercial space, including SpaceX's NASA contracts for commercial crew and cargo carriage to the International Space Station. Caryn works

extensively with U.S. Government agencies on SpaceX's launch and recovery operations, particularly the Federal Aviation Administration's Office of Commercial Space Transportation, which licenses SpaceX's launches and reentries. Caryn is honored to serve as an adjunct professor of space law at Georgetown University Law Center. Prior to joining SpaceX, Caryn served as Deputy Associate Director for Legislative Affairs at the Office of Management and Budget in the Executive Office of the President. Caryn has also served as Counsel, Policy Director and Deputy Chief of Staff on Capitol Hill; her last Hill position was with Congresswoman Gabrielle Giffords. Before entering the political realm, Caryn practiced international law at a Washington, D.C. firm.

Franceska Schroeder

Principal, Fish & Richardson



Franceska Schroeder is an aerospace and defense industry and national security lawyer in the Washington, D.C., office of Fish & Richardson. Clients turn to Ms. Schroeder for help with complex regulatory, risk management, and contractual issues involving a wide range of space, defense, and other high

technology projects. She is also Legal Counsel to the American Astronautical Society. In 2012, Ms. Schroeder was appointed to the NASA Advisory Council's Commercial Space Committee and in 2014 was elected a Fellow of the American Astronautical Society. Ms. Schroeder also is an Adjunct Professor at the University of Nebraska School of Law, where she co-teaches a course on Space and Satellite Business Law.

Speaker Biographies

George Sowers

Professor, Colorado School of Mines



George Sowers has 30 years of experience in the space transportation field working for Martin Marietta, Lockheed Martin and the United Launch Alliance (ULA). He recently retired from his position as Vice President and Chief Scientist at ULA where his team developed an architecture for fully reusable in-space stages fueled by propellant mined, refined and distributed in space. Dr. Sowers has now joined the faculty of the Colorado School of Mines as part of a newly created graduate program in space resources.

Eric Stallmer

President, Commercial Spaceflight Federation



Eric Stallmer is the President of the Commercial Spaceflight Federation. Under Stallmer's leadership, CSF has worked tirelessly to craft the modern Commercial Space Launch Act, as well as to promote innovation as a national policy to spur the economy and create high technology jobs. In addition, CSF works to develop industry standards and encourages further growth in the commercial spaceflight industry. Before working at CSF, Stallmer served as the Vice President of Government Relations at Analytical Graphics Inc. (AGI). Stallmer joined AGI in 2002. While there, Stallmer oversaw all Washington Operations and represented AGI's commercial off-the-shelf products and technology to defense, intelligence, Congress and civil government sectors within the aerospace industry. Stallmer came to AGI from The Space Transportation Association (STA). Prior to that, Stallmer worked on Capitol Hill in the office of then Congressman Tom Coburn. For more than two decades, Stallmer has served as an Officer in the United States Army and Army Reserves. He was awarded the Bronze Star Medal for meritorious service while engaged in combat operations during Operation Iraqi Freedom. He is currently assigned to the Pentagon in the office of the Deputy Chief of Staff Army for Logistics, G-4.

Matthew Weinzierl

Professor, Harvard Business School



Matt Weinzierl is a Professor in the Business, Government, and the International Economy Unit at Harvard Business School and a Research Associate at the National Bureau of Economic Research. Prior to his doctoral studies at Harvard, Professor Weinzierl worked in the New York office of McKinsey & Company, specializing in financial services. From 2003 to 2004, he served as the Staff Economist for Macroeconomics on the President's Council of Economic Advisers. Professor Weinzierl has written on a range of topics in optimal taxation and optimal economic policy more generally. His most recent projects, associated with the idea of *Positive Optimal Tax Theory*, focus on identifying and formalizing the goals for tax policy that hold sway among the public, political and economic leaders, and leading tax thinkers, and then characterizing the implications of using those objectives in the analysis of optimal taxation. Professor Weinzierl is also the creator of an elective course at HBS entitled "The Role of Government in Market Economies." For that course, he has written case studies on public education, national health insurance, welfare reform, immigration, and a variety of topics in taxation.

George T. Whitesides

Chief Executive Officer, Virgin Galactic and The Spaceship Company



Prior to Virgin Galactic, George served as Chief of Staff for NASA. Upon departure from the American space agency, he received the Distinguished Service Medal, the highest award the agency confers. George serves as co-Chair of the World Economic Forum's Global Future Council on Space Technologies. He is a member of Caltech's Space Innovation Council, Vice Chair of Commercial Spaceflight Federation, Director on the Antelope Valley Board of Trade and Princeton University's Advisory Council for Mechanical and Aerospace Engineering. He is a fellow of the UK Royal Aeronautical Society and an associate fellow of the American Institute of Aeronautics and Astronautics. He previously chaired the Reusable Launch Vehicle Working Group for the FAA's Commercial Space Transportation Advisory Committee, and served on the Board of Trustees of Princeton University and the board of Virgin Unite USA. George has testified on American space policy before the United States Senate, the United States House of Representatives, and the President's Commission on Implementation of United States Space Exploration Policy.
