



THE MAUREEN AND MIKE MANSFIELD FOUNDATION

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NEXT STEPS FOR U.S.-JAPAN SPACE COOPERATION

In March 2016, the Maureen and Mike Mansfield Foundation convened the fourth meeting of the U.S.-Japan Space Forum, a gathering of American and Japanese experts from the private sector, academia, and government. Over four meetings since its inception in 2014, the Forum has assessed the fluid space environment – marked by changes in the constellation of space actors, new uses of space, proliferating security threats, and persistent constraint of resources in both the United States and Japan. Inspired in part by Japan's adoption of its Basic Plan on Space Policy in January 2013, the members of the Forum determined early on that promoting collaboration between the Japanese and American space sectors would help both nations address emerging challenges and take advantage of new opportunities to use space to advance common interests. Reflecting on the track-one "Comprehensive Dialogue on Space," which is scheduled to meet this autumn, the members of the Forum recently published a concise list of recommendations for consideration by Japanese and American officials.

On September 9th, 2016, the Mansfield Foundation will partner with the George Washington University Space Policy Institute on a public seminar discussing the path forward for U.S.-Japan collaboration in space. Members of the U.S.-Japan Space Forum will share their recently published recommendations. The seminar will also invite commentary from a broader subset of stakeholders in regional security and space activities, including members of the 2016 Prague Security Studies Institute (PSSI) Trilateral Europe-U.S.-Japan Space Security Partnership Conference.

9 September, 2016, 9:00AM – 1:00PM

Linder Family Commons, George Washington University Elliott School
1957 E Street (6th Floor), Washington, D.C.

9:00-9:15	WELCOME/PROGRAM OVERVIEW <i>Frank Jannuzzi, President and CEO, Maureen and Mike Mansfield Foundation</i> <i>Scott Pace, Director, Space Policy Institute, GWU Elliott School</i>
9:15-9:45	U.S.-JAPAN SPACE FORUM, RECOMMENDATIONS ROLLOUT <i>Saadia Pekkanen, Job & Gertrud Tamaki Professor, University of Washington, Jackson School of International Studies</i> <i>Hiroshi Yamakawa, Professor, Kyoto University; Member, Committee of National Space Policy</i>
9:45-10:15	PERSPECTIVES FROM PSSI EUROPE-U.S.-JAPAN SPACE SECURITY PARTNERSHIP CONFERENCE <i>Todd Harrison, Director, Defense Budget Analysis and Senior Fellow, International Security Program, CSIS</i> <i>Jennifer Warren, Vice President, Technology Policy & Regulation, Lockheed Martin (tentative)</i> <i>Masami Oka, Deputy Director General at the Bureau of Defense Policy (Invited)</i>
10:15-10:30	QUESTION AND ANSWER PERIOD
10:30-10:45	COFFEE BREAK
10:45-11:45	MODERATED PANEL DISCUSSION: SPACE COLLABORATION POLICY GOALS & STRATEGIC REALITIES <i>Moderator: Scott Pace, Director, Space Policy Institute, GWU Elliott School</i> <i>Masao Akiyama, General Manager, International Operations, IHI</i> <i>Hiroyuki Iwamoto, Director, JAXA Washington D.C. Office</i> <i>Matt Koeppe, International Programs Specialist, NASA</i> <i>Peter Marquez, Vice President, Global Engagement, Planetary Resources</i>
11:45-12:00	QUESTION AND ANSWER PERIOD
12:00-1:00	ATTENDEES INVITED TO REMAIN FOR CASUAL BOXED LUNCH

PARTICIPANT BIOS



Masao Akiyama

*General Manager, International Operations
IHI Aerospace Co., Ltd*

Masao Akiyama is General Manager of International Operations at IHI Aerospace Co., Ltd. Mr. Akiyama represents IHI in Washington, D.C. He holds a Bachelor of Engineering from Waseda University.



Todd Harrison

*Director, Defense Budget Analysis and Senior Fellow, International Security Program
CSIS*

Todd Harrison is the director of defense budget analysis and a senior fellow in the International Security Program at CSIS. He leads the Center's efforts to provide in-depth, nonpartisan research and analysis of defense funding issues. He also provides expert analysis on space security and other key national security issues. Mr. Harrison joined CSIS from the Center for Strategic and Budgetary Assessments, where he was a senior fellow for defense budget studies. He has authored a number of publications on trends in the overall defense budget, defense acquisitions, military compensation, military readiness, cost of nuclear forces, military space systems, and cost of the wars in Iraq and Afghanistan. He frequently contributes to print and broadcast media and has appeared on CNBC, CNN, NPR, Al Jazeera English, and Fox News. He has been a guest lecturer for a number of organizations and teaches a class on the defense budget at George Washington University's Elliot School of International Affairs and a class on military space systems at Johns Hopkins University's School of Advanced International Studies. He is a term member of the Council on Foreign Relations and was named one of the *Defense News* 100 Most Influential People in U.S. Defense.

Mr. Harrison previously worked at Booz Allen Hamilton, where he supported clients across the Department of Defense, assessing challenges to modernization initiatives and evaluating the performance of acquisition programs. Prior to Booz Allen, he worked in the aerospace industry developing advanced space systems and technologies and served as a captain in the U.S. Air Force Reserves. He is a graduate of the Massachusetts Institute of Technology with both a B.S. and an M.S. in aeronautics and astronautics.



Frank Jannuzi

*President and CEO
Maureen and Mike Mansfield Foundation*

Frank Jannuzi joined the Mansfield Foundation as President and Chief Executive Officer in April 2014. He previously served as Deputy Executive Director (Advocacy, Policy and Research) at Amnesty International, USA. There he shaped and promoted legislation and policies to advance universal human rights, protect individuals and communities at risk, and free prisoners of conscience.

From 1997-2012 Mr. Jannuzi was Policy Director, East Asian and Pacific Affairs, for the U.S. Senate Foreign Relations Committee, where he advised Committee Chairmen Joseph Biden and John Kerry on a range of security, political, economic, and human rights issues pertinent to U.S. relations with East Asia. During his tenure with the Foreign Relations Committee he also was a Hitachi Fellow of the Council on Foreign Relations from 2006-2007, serving as a visiting lecturer at Keio University and a visiting scholar at the Institute of International Policy Studies in Tokyo. Early in his career he served for nine years as an analyst in the U.S. Department of State's Bureau of Intelligence and Research.

Mr. Jannuzi holds a Bachelor of Arts degree from Yale University and Master in Public Policy degree from the John F. Kennedy School of Government, Harvard University. He has traveled throughout Asia and has written extensively on East Asia policy issues, including U.S. relations with Japan, China, and North Korea.



Hiroyuki Iwamoto
Director, Washington Office
JAXA

Hiroyuki Iwamoto has been the Director of the JAXA Washington DC Office since 2015. He previously served as the Head of Mission Planning Office, Satellite Application and Promotion Center (SAPC), Space Applications Mission Directorate I in JAXA (2013-2015).

His background also includes serving as Manager, Program Management and Integration Department, Space Applications Mission Directorate in JAXA (2012-2013) and Manager, Industrial Collaboration Center in JAXA (2010-2012). Mr. Iwamoto also served as the Secretary General, Young Astronauts Club in Japan (YAC) (2008-2010), Deputy Manager, Industrial Collaboration and Coordination Department, JAXA (2003-2008), and Deputy Director, NASDA (National Space Development Agency of Japan) Paris Office in France (2000-2003). Those positions followed his experience serving as staff in the Program Planning and Strategy Department of NASDA (1996-2000), Rocket System Cooperation (RSC) (1996), and International Space Station (ISS) Program (1991-1994). He runs his own website describing various topics related to space and blogs about his experiences in daily life. He expresses himself as "Uchu Ojisan (宇宙おじさん)" in the Space Education Television Program and Young Astronauts Club - Japan (YAC-J).



Matthew Koeppel
International Programs Specialist
NASA

Matthew Koeppel has served as an international program specialist at NASA from February 2011 and an adjunct faculty at George Washington University from January 2007. He served as the Director of GIScience Programs in the Association of American Geographers from April 2006 to January 2010, and as an International Programs Specialist in NASA from March 2005 to March 2006. He has a PhD in geography and an MA in Latin American Studies from the University of Kansas and a BA in Spanish and Latin American Studies from the University of Arkansas.



Peter Marquez
Vice President, Global Engagement
Planetary Resources

Peter Marquez is the Vice President for Global Engagement at Planetary Resources, a fellow at the George Marshall Institute and the owner of Ascending Node, a national security consulting firm specializing in space.

From 2007 to 2010, Mr. Marquez served at the White House in the National Security Council as the Director for Space Policy where he led the development of the 2010 U.S. National Space Policy. He oversaw the development, implementation, and coordination of the space policies of Presidents Bush and Obama. Mr. Marquez's policy responsibilities, in addition to space, included critical infrastructure protection, and military intelligence activities. He also oversaw regional security issues, focusing on Asia. While at the White House, he began the initiative that created the U.S.-Japan strategic space cooperation.

From 2005 to 2007, Mr. Marquez served as a special assistant to the Under Secretary and Principal Deputy Under Secretary of Defense for Policy. His duties in that position included oversight of the Department of Defense's operational special access programs. From 2003 to 2005, he worked in the Office of the Secretary of Defense's directorate for Space Policy and was responsible for the space control portfolio. From 2000 to 2003, he worked for the United States Air Force assisting in the development of policy and requirements and the acquisition of classified space programs.

Mr. Marquez was born in Gilroy, California and received a bachelor's degree in political science in 1998 and a master's degree in science and technology policy in 2000 from George Washington University.

Mr. Marquez resides in Washington, D.C. with his wife and two daughters.

Masami Oka (Invited)
Deputy Director General
Bureau of Defense Policy, MOD



Director, Space Policy Institute
George Washington University

Scott Pace is the Director of the Space Policy Institute and Professor of the Practice of International Affairs at the George Washington University's Elliott School of International Affairs. He is also a member of the faculty of the Trachtenberg School of Public Policy and Public Administration. His research interests include civil, commercial, and national security space policy, and the management of technical innovation.

From 2005-2008, Dr. Pace served as the Associate Administrator for Program Analysis and Evaluation at NASA. Prior to NASA, he was the Assistant Director for Space and Aeronautics in the White House Office of Science and Technology Policy (OSTP). From 1993-2000, Dr. Pace worked for the RAND Corporation's Science and Technology Policy Institute (STPI). From 1990 to 1993, he was Deputy Director and Acting Director of the Office of Space Commerce, in the Office of the Deputy Secretary of the Department of Commerce. Dr. Pace received a Bachelor of Science degree in Physics from Harvey Mudd College in 1980; master's degrees in Aeronautics & Astronautics and Technology & Policy from the Massachusetts Institute of Technology in 1982; and a doctorate in Policy Analysis from the RAND Graduate School in 1989.

Dr. Pace received the NASA Outstanding Leadership Medal in 2008, the US Department of State's Group Superior Honor Award, *GPS Interagency Team*, in 2005, and the NASA Group Achievement Award, *Columbia Accident Rapid Reaction Team*, in 2004. He has been a member of the US Delegation to the World Radiocommunication Conferences in 1997, 2000, 2003, and 2007. He was also a member of the US Delegation to the Asia-Pacific Economic Cooperation Telecommunications Working Group, 1997-2000. More recently, he has served as a member of the U.S. Delegation to the UN Committee on the Peaceful Uses of Outer Space in 2009, and 2011-15. Dr. Pace has been a member of the NOAA Advisory Committee on Commercial Remote Sensing (ACCRES) since 2012. Dr. Pace is a former member of the Board of Trustees, Universities Space Research Association, a Member of the International Academy of Astronautics, an Associate Fellow of the American Institute of Aeronautics and Astronautics, and a member of the Board of Governors of the National Space Society.



Saadia Pekkanen
Job & Gertrud Tamaki Professor Saadia M. Pekkanen
University of Washington, Jackson School of International Studies

Saadia M. Pekkanen is Associate Director and Founding Director of the Jackson School PhD Program. She is the Job and Gertrud Tamaki Professor at the Jackson School of International Studies, Adjunct Professor in the Department of Political Science, and Adjunct Professor at the School of Law where she also teaches courses. Her graduate work includes a Master's from Columbia University and Yale Law School, and a doctorate from Harvard University. In addition to several articles, she is the author of *Picking Winners? From Technology Catch-up to the Space Race in Japan* (Stanford University Press, 2003); *Japan's Aggressive Legalism: Law and Foreign Trade Politics Beyond the WTO* (Stanford University Press, 2008); co-editor of *Japan and China in the World Political Economy* (Routledge, 2005); co-author of *In Defense of Japan: From the Market to the Military in Space Policy* (Stanford University Press, 2010); co-editor of *The Oxford Handbook of the International Relations of Asia* (Oxford University Press 2014); and editor of *Asian Designs on Governance in the World Order* (forthcoming). Her work has been funded by the Social Science Research Council, the Harvard Academy for International and Area Studies, the Center for Global Partnership (CGP), the Abe Fellowship, and the National Science Foundation (NSF). She works on the international relations of Japan and Asia, with a special interest in outer space governance, security, and policy. She writes a monthly column for *Forbes* on these themes, which is included by the National Security Space Institute (NSSI) at Peterson Air Force Base in its weekly newsletter of aggregated news distributed to 7,000+ members of the U.S. military, government, and defense partners worldwide.



Jennifer Warren (tentative)
Vice President, Technology Policy & Regulation
Lockheed Martin

Jennifer A. Warren is Vice President, Technology Policy & Regulation, in LM Washington Operations' Government and Regulatory Affairs. In this position, she is responsible for managing the development and implementation of corporate domestic and international regulatory and associated policy strategies affecting business interests and opportunities, including spectrum, satellite/launch licensing, cybersecurity, energy/environment, and emerging technologies.

In 1996, Ms. Warren joined Lockheed Martin as a Director in Space & Strategic Missiles Sector, and subsequently became a Government Affairs Director in Lockheed Martin Global Telecommunications. She then joined Washington Operations in 2001 as Senior Director, Trade & Regulatory Affairs. From 1991-1996, Ms. Warren served in various capacities at the U.S. Federal Communications Commission, including Senior Legal Advisor/International Bureau and Assistant Chief/Wireless Telecommunications Bureau. She has served on numerous U.S. delegations to regional and global intergovernmental organizations, including all major ITU treaty-making conferences since 1995.

Prior to joining the U.S. Government, Ms. Warren worked for the Commission of the European Union in Brussels, with particular focus on EU-Japan and EU-US issues, and in Washington, DC with a focus on EU-US trade. Ms. Warren is a graduate of Georgetown University (B.S. in Languages) and Georgetown University Law Center (J.D.), and is a member of the Illinois State and D.C. Bars. She is an Adjunct Professor at Georgetown University Law Center where she teaches an annual course on Global Communications Policy & Regulation.

Ms. Warren holds leadership positions in several professional and civic organizations. She sits on the Board of the Satellite Industry Association, the Commercial Policy Board of Tech America, and the Board of the US ITU Association. She serves on two U.S. Federal Advisory Committees – the Department of State's Advisory Committee on International Communications and Information Policy and the Department of Commerce's Spectrum Management Advisory Committee.



Hiroshi Yamakawa
Professor
Kyoto University

Hiroshi Yamakawa has been a professor of space engineering at Kyoto University since 2006. He is also a member of the Committee of National Space Policy (CNSP), Cabinet Office, assigned in 2012.

Prior to the CNSP, Dr. Yamakawa was appointed Secretary General of the secretariat of the Strategic Headquarters for Space Policy in the Cabinet Secretariat of the Government of Japan, where he served between July 2010 and July 2012. As Secretary General, he led the role of establishing the Office of National Space Policy (ONSP) in the Cabinet Office. This work entailed amending the Act for Establishment of the Cabinet Office in July 2012, and managing activity toward the Cabinet Decision issued in September 2011 to promote the Japanese regional satellite navigation system QZSS (Quazi-Zenith Satellite System) by 2020.

Dr. Yamakawa was an assistant professor and an associate professor at the Institute of Space and Astronautical Science (ISAS) from 1993 to 2003, followed by an associate professorship at Japan Aerospace Exploration Agency (JAXA) between 2003 and 2006. Between 1990 and 2006, he was engaged in mission and system design for Earth-orbiting scientific satellite projects, as well as in lunar and interplanetary missions. He was responsible for the navigation, guidance, and control systems of the solid propellant M-V rocket from 1997 through 2006, and the liquid propellant reusable vertical-takeoff and landing test rocket, RVT, from 1999 to 2003. He served as a study manager and a project manager of the Euro-Japan collaborative BepiColombo mission to Mercury from 2000 through 2006. He was a visiting scientist at NASA JPL (Pasadena, CA) from 1997-1998, and at ESA ESTEC (Noordwijk, The Netherlands) in 2002.

Dr. Yamakawa graduated from the University of Tokyo in 1988, and received a PhD in Space Engineering in 1993, also from the University of Tokyo.

ATTENDEES