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## The AMOS Dialogue

Wednesday, February 26, 2014

### Biographies

In Alphabetical Order

**Vladimir Agapov** currently serves as a senior scientist for the Keldysh Institute of Applied Mathematics, Russian Academy of Sciences. In this position, he leads the development and implementation of mathematical and software tools supporting effective collection, processing, and analysis of the data by the ISON (International Scientific Optical Network) for HEO and GEO objects and orbital events, including conjunctions between operational spacecraft and other objects. He is also a member of the Space Debris Expert (Ad-Hoc) Commission of the Space Council of the Russian Academy of Sciences and member of the IAA Space Debris Committee. For many years, he has been working as an expert at the Inter-Agency Space Debris Coordination Committee (IADC). In 2011, Dr. Agapov began working as a leading expert from Russia in the Expert Group B "Space debris, space operations and tools to support collaborative space situational awareness" of the Working Group on the Long-term Sustainability of Outer Space Activities of the UNCOPUOS Scientific and Technical Subcommittee.

Dr. Agapov earned his Engineering degree (diploma with Honors) in "Flight dynamics and flight control of space crafts and rockets" from Moscow State Technical University in 1994, and completed a Ph.D. program in Theoretical Mechanics and Flight Dynamics from the Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences in 1998.

**Frank Asbeck**, European Union's External Action Service

**Brett Biddington** is the founder of a consulting company specializing in space and cyber security matters. He also serves as a director of the Kokoda Foundation, a Canberra-based 'think tank', and as an Adjunct Professor at the Security Research Institute at Edith Cowan University in Perth, Western Australia. Between 2002 and 2009 he was a member of Cisco Systems' global space team. Prior to that, Mr. Biddington was an intelligence and security specialist, and later a capability developer, in the Royal Australian Air Force (RAAF). While a member of RAAF, Mr. Biddington sponsored command and control, intelligence, surveillance, reconnaissance, and electronic warfare projects including classified and unclassified space initiatives.

**Andrew D'Uva** is the President of Providence Access Company, a Washington DC based strategy, policy, and advocacy consultancy specializing in satellite and space issues. Providence Access has advised all of the major commercial satellite operators. He previously held executive positions at New Skies Satellites and SES after leaving the private practice of law. Mr. D'Uva conceives and leads the strategy and policy for the Space Data Association, an innovative space situational awareness support organization focused on collision avoidance and mitigation of electromagnetic and radio frequency interference. He received his J.D. from the Georgetown University Law Center and his undergraduate degree from Georgetown University.

**Yasushi Horikawa** works as a technical counselor for the Japan Aerospace Exploration Agency (JAXA), where he advises on international relations, and application satellite development and utilization programs. He also served as the Chair of the United Nations Committee on Peaceful Use of Outer Space (UNCOPUOS) for 2012- 2013. During his career, Dr. Horikawa has served in various executive and leadership positions. From 2005 to 2009, he served as an executive director of JAXA responsible for the development of application satellites such as Earth observations, communications, broadcasting, and global positioning satellites, as well as the operation and utilization of these satellites. He contributed to the development of the International Space Station as the Japanese Program Manager, and to the successful implementation of Japanese meteorological satellite programs and Earth observation programs. Dr. Horikawa received both his Bachelor's degree and PhD in electrical engineering from the University of Tokyo.

**Jonathan Hung** is currently President of the Singapore Space and Technology Association (SSTA), Singapore's lead industry association focused on supporting the development of the space technology industry. His international work experience includes being Vice President, Business Development and Sales at Contraves Group, a Rheinmetall Defense and Boustead Joint-Venture, as well as holding management roles with CAE Inc. Prior to CAE, he managed Business Development and Strategic Partnerships at Singapore Technologies Electronics (Satcom & Sensor Systems) and ST (Satellite Systems). Earlier in his career, Mr. Hung was the Centre Director for Middle East & North Africa Operations at the Singapore Economic Development Board (EDB), the country's lead investment promotion agency. Mr. Hung serves as Committee Chairman for the Global Space & Technology Convention. He has also been nominated to the Asia Pacific Regional Space Agency Forum's (APRSAF) Task Force Committee.

**Narita Kaneaki**, JAXA

**Souichiro Kozuka**, Gakushuin University, Japan

**Douglas L. Loverro** is the Deputy Assistant Secretary of Defense for Space Policy. In this role, he is responsible for establishing policy and guidance to assure U.S. and allied warfighters the benefits of space capabilities and to help guide the Department's strategy for addressing space-related issues. He also leads Departmental activities in international space cooperation. Mr. Loverro most recently served as the Executive Director for Air Force Space Command's Space and Missile Systems Center, where he also served as the Air Force's Deputy Program Executive Officer (PEO) for Space. In that capacity, he was responsible for the development, deployment, and sustainment of all Department of Air Force space systems and was a key spokesman for addressing the growing importance of space systems and the steps needed to assure them for the future. He has been involved in the planning and acquisition of DoD and Space Intelligence systems for over twenty years.

Mr. Loverro is credited with invention of the supersonic chemical oxygen-iodine laser, the initiation of the DoD's Global Broadcast Service, establishing the foundation for all Global Positioning System modernization, and leading the push for greater use of commercial manufacturing and capabilities for future DoD space and launch systems. He retired from active duty in February 2006 upon selection as a member of the Defense Intelligence Senior

Executive Service. He assumed his current role in March 2013. Mr. Loverro holds a BS in Chemistry from the United States Air Force academy, an MS in Physics from the University of New Mexico, an MS in Political Science from Auburn University, and an MBA from the University of West Florida. He was the top graduate from his class in the Industrial College of the Armed and is a graduate of the JFK School of Government Senior Executives in National and International Security Program.

**Sergio Marchisio** is Professor of Law at the University Sapienza of Rome and, since 2007, Chairman of the European Centre for Space Law (ECSL/ESA). Dr. Marchisio is also a member of the Italian delegation to the UNCOPUOS, where he served as Chairman of the Legal Subcommittee (2004-2006), and to the EU Council's CODUN Space. In 2011, he was appointed as a member of the Group of 15 Governmental Experts (GEE) on TCBMs set up by the UNGA in 2011.

**Peter Martinez** is the Chairman of the South African Council for Space Affairs, the national regulatory authority for space activities in South Africa. He has served on the South African delegation in several multilateral fora dealing with space affairs and is currently the Chairman of the United Nation Committee on the Peaceful Uses of Outer Space (UN COPUOS) Scientific and Technical Subcommittee's Working Group on the Long-Term Sustainability of Outer Space Activities. He was South Africa's representative on the United Nations Group of Government Experts on transparency and confidence building measures for space activities.

Dr. Martinez holds a PhD in astrophysics from the University of Cape Town. He is a member of the International Academy of Astronautics, the International Astronomical Union and the International Institute of Space Law. He has authored, co-authored or edited over 190 publications in journals and books and is an Associate Editor of the COSPAR journal *Advances in Space Research*.

**Sa'id Mosteshar** is Director of the London Institute of Space Policy and Law, Professor of International Space Policy and Law, member of the UK Space Leadership Council, and Adviser to the UK Delegation to the Legal Subcommittee of COPUOS. He is a member of the Legal and Regulatory Committee of the International Association for the Advancement of Space Safety, of the International Institute of Space Law and Fellow of the Royal Aeronautical Society. A Barrister and California Attorney, with degrees also in physics and econometrics, he has advised governments, international agencies and major space corporations on legal and policy issues for about thirty years. Mr. Mosteshar led the Institute's ESA funded Study, *Evidence from Space*. His writings include: *Satellite and Cable Television - International Protection*; *Satellite Communication*; *Space Situational Awareness: Need, Solutions and Some Consequences*; German Journal of Space Law 2013; contributions to the *National Regulation of Space Activities*, winner of the 2011 Social Sciences Book Award of the International Academy of Astronautics; and contributions to *Evidence from Earth Observation Satellites*, on *EO in the European Union: Legal Considerations*.

**Nobu Okada** founded ASTROSCALE PTE LTD in Singapore in 2013 to address the growing threat of space debris by incubating removal technologies while arousing a passion for space exploration among ordinary citizens. Prior to this, he managed IT companies in Japan, China, India, and Singapore, one of which had a successful IPO. Before joining the IT industry, Mr. Okada worked for McKinsey & Company and the Japanese Ministry of Finance. Mr. Okada received his Bachelor's degree in Genetics from the University of Tokyo in 1995 and an MBA from the Krannert School of Business, Purdue University in 2001.

**Xavier Pasco** is a Senior Research Fellow at the *Fondation pour la Recherche Stratégique* (FRS) based in Paris where he is in charge of the Department "Technology, Space and Security." Previous to 1997, he was a researcher at CREST (*Center for Research and Evaluation of the relationships between Strategies and Technology*) associated with l'Ecole Polytechnique, France. Dr. Pasco's research focuses on space and high technology policies and

decision-making processes associated with national security strategies. He is working more specifically on the European and U.S. policies and on their impact on the transatlantic relationship in space activity, both in the civilian and military domains. He has also been involved in a number of projects studying the use of space for security, coordinated by the European Commission. He has also supported several analytical works of the subcommittee on Security and Defence of the European Parliament, as well as ESA's on-going work on governance and data policy issues.

Dr. Pasco is an associate Research Fellow at the Space Policy Institute of the George Washington University (Washington D.C., U.S.A.). He is also giving lectures in the French Military School in Paris and at the Institute of Political Studies in Paris. He has also been associate Professor at the University of Marne-la-Vallée and is the European Editor of the international academic review *Space Policy*. In 2012, Xavier Pasco has been elected full member of the International Academy of Astronautics. He has also been named Expert at the European Economic and Social Committee in Brussels in 2007. Dr. Pasco received his Doctorate in Political Science from the University of Paris-Sorbonne.

**Jessica Powers**, U.S. Office of the Secretary of Defense, Space Policy

**Benjamin Reed** currently serves as the deputy program manager of the Satellite Servicing Capabilities Office at NASA Goddard Space Flight Center. In this position, he is responsible for the formulation, development, and execution of a portfolio of technologies cultivated to provide satellite-servicing capabilities in support of Agency missions and national objectives. Mr. Reed's responsibilities include liaison with aerospace manufacturers, satellite fleet owners and operators, insurance agencies, and other Government agencies on matters related to satellite servicing.

**Heidi Robinson**, U.S. Office of the Secretary of Defense, Space Policy

**Sandy Ryan**, MEDB

**Victoria Samson** is the Washington Office Director for Secure World Foundation and has more than fifteen years of experience in military space and security issues. Before joining SWF, Samson served as a Senior Analyst for the Center for Defense Information (CDI), where she leveraged her expertise in missile defense, nuclear reductions, and space security issues to conduct in-depth analysis and media commentary. Prior to her time at CDI, Samson was the Senior Policy Associate at the Coalition to Reduce Nuclear Dangers, a consortium of arms control groups in the Washington, D.C. area where she worked to share information quickly and efficiently between Congressional staffers, members of the media, embassy officials, citizens and think-tanks dealing with national missile defense and nuclear weapons reductions. Before that, she was a researcher at Riverside Research Institute, where she worked on war-gaming scenarios for the Missile Defense Agency's Directorate of Intelligence. Victoria Samson holds a Bachelor's of Art (B.A.) degree in political science with a specialization in international relations from UCLA and a Masters of Art (M.A.) in international relations from the Johns Hopkins School of Advanced International Studies.

**Stacie Shurchay** works as an analyst in the Space Policy Branch of the J5 Plans and Policy Directorate, United States Strategic Command, Offutt Air Force Base, Nebraska. Prior to this position, she served as an active duty Air Force Space and Missiles officer, assigned to the 4th Space Operations Squadron and 50th Operations Group. Ms. Shurchay followed her active duty time as a contractor supporting the GPS Operations Center as a Navigation Mission Analyst. She joined the 1st Space Control Squadron as an Orbital Analyst in 1997. As a Senior Orbital Analyst, Ms. Shurchay specialized in analyzing deep space objects to include multi-day orbits, geosynchronous

satellites, and deep space launches. In April 2012, Ms. Shurchay relocated to Omaha, Nebraska to facilitate space situational awareness information sharing between the U.S. and commercial and foreign entities worldwide. She has represented USSTRATCOM and the Space Situational Awareness program in various fora, focusing on education and increasing participation, both from commercial and non-U.S. governmental entities.

**Michael K. Simpson** is the Executive Director of Secure World Foundation, after joining SWF as the Senior Program Officer in September 2011 following seven and a half years as President of the International Space University (ISU). Dr. Simpson holds a post as Professor of Space Policy and International Law at ISU. He is a corresponding member of the International Academy of Astronautics. After 23 years of service, Dr. Simpson retired from the Naval Reserve in 1993 with the rank of Commander. Dr. Simpson received his Bachelor's Degree magna cum laude from Fordham University in 1970 where he was elected to Phi Beta Kappa. He completed his Ph.D. at Tufts University, The Fletcher School of Law and Diplomacy, holds a Master of Business Administration from Syracuse University, and has two Master of Arts degrees from The Fletcher School. He has also completed two prestigious one year courses in Europe: the French advanced defense institute (Institut des Hautes Études de Défense Nationale) and the General Course of the London School of Economics. He is the author of numerous scholarly papers, presentations, articles and book contributions and his practical experience includes service as a Political Military Action Officer, observer representative to the UN Committee on the Peaceful Uses of Outer Space, and member of the Association of Space Explorers International Panel on Asteroid Threat Mitigation. He currently serves on the Commercial Spaceflight Safety Committee of the IAF.

**Jeanne Skog**, MEDB

**Colin Thomson** has been the Director of the Defence Space Coordination Office in Royal Australian Air Force Headquarters since August 2011. Prior to his current appointment, Group Captain Thomson served in Project Management appointments for the acquisition of Unmanned Aerial Vehicle and SATCOM projects. Before laterally transferring into the RAAF in March 2000 he served 16 years in the UK Royal Air Force in a variety of ground and satellite communications related positions. A professionally qualified engineer and certified practising project director, Group Captain Thomson has a Bachelor of Science in Electrical and Electronic Engineering from Glasgow University and an Executive Masters in Complex Project Management from Queensland University of Technology.

**Paul Welsh** is the vice president of Business Development, Analytical Graphics, Inc. (AGI) and is responsible for the execution of strategic market initiatives, the development and capture of program opportunities, and the management of AGI business partners. Mr. Welsh is also the executive sponsor for AGI's Space Data Association activities. He joined AGI in 1998 as the market segment manager for commercial space, serving in that capacity until he was promoted to his current position. Prior to joining AGI, Mr. Welsh worked for 17 years at Lockheed Martin Space Systems Division in a variety of positions including electronics design, systems engineering, engineering management and program management. He received a Bachelor's degree in electrical engineering from Villanova University in 1981; a Master's degree in systems engineering from The Moore School of the University of Pennsylvania in 1984; and an MBA from The Wharton School of the University of Pennsylvania in 1998.

**Susumu Yoshitomi**, JSF