



Space Security 2014

“The Evolving Space Security Regime: Implementation, Compliance and New Initiatives”

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ABOUT THE CHAIRS AND SPEAKERS

Natália Archinard obtained her PhD in mathematics from the Swiss Federal Institute of Technology in Zurich (ETHZ) in 2000. She then spent several years researching and lecturing both at ETHZ and McGill University in Montreal, Canada. During the year 2005, Dr. Archinard worked with the Director of the Space Programme at the World Meteorological Organisation (WMO) in Geneva. In 2006, she joined the Swiss Federal Department of Foreign Affairs (FDFA) where she contributed to the establishment of the Education, Science and Space Section in the Directorate of Political Affairs. Since 2007, she has been a Swiss delegate to the European Space Agency (ESA) and participated in the formulation of the Swiss space policy. Over the years, she has also been a member of Swiss delegations to the High Level Space Policy Group (HSPG), a joint ESA-EU forum, to the European Organization for Nuclear Research (CERN) and to the Group on Earth Observation (GEO). In 2008, she was appointed Deputy Head of the Education, Science and Space Section at FDFA where she, for example, put on track the creation of a GeoService delivering geographical informations to the Department. Dr. Archinard has led the Swiss delegation to the UN Committee on the Peaceful Uses of Outer Space (UN COPUOS) since Switzerland became a member of the Committee in 2008. In recent years, she has been coordinating the Swiss positions on the long-term sustainability of outer space activities at UN COPUOS and on the EU proposal for an International Code of Conduct for Outer Space Activities. She is also involved in the preparation of the Swiss positions with respect to outer space in the disarmament forums.

Ben Baseley-Walker is Programme Lead of the Emerging Security Threats Programme (ESTP) at the UN Institute for Disarmament Research (UNIDIR). With significant experience in international relations, international law, and strategic communications, Mr. Baseley-Walker brings an innovative strategic approach to his work facilitating and supporting international dialogue on emerging areas of conflict and international security. Before joining UNIDIR, Mr. Baseley-Walker was the Advisor on Security Policy and International Law for the Secure World Foundation, a private operating foundation working in the field of space security. In this role he focused engaging the international community, especially emerging space States, on looking at new methods for multilateral negotiations of space-related international security issues. Previously, Mr. Baseley-Walker worked in international relations and international law in East Africa with the Kenya National Commission on Human Rights, the Ethiopia International Law Project and the UN High Commissioner for Refugees in Nairobi, Kenya. Mr. Baseley-Walker studied International and European Law at the Universiteit Van Amsterdam Law School in the Netherlands, and Politics at the University of Edinburgh in Scotland. He is a graduate of ISU Space Studies Programme in Beijing.

Caroline Baylon is currently a Research Associate in the International Security programme at Chatham House where she specializes in cyber security, cybercrime, internet governance and defence policy. From 2009-2013, Ms. Baylon served as Vice President of the Center for Strategic Decision Research. Ms. Baylon holds a Master's degree in Social Science of the Internet from the University of Oxford and a Bachelor's degree in Economics from Stanford University.

Chris Buck arrived in Geneva in August 2013 to take up his current responsibilities as Chargé d'Affaires of the US Delegation to the Conference on Disarmament. A career Foreign Service political officer, Chris joined the US Department of State in 1993 and has been posted previously in Mumbai, Berlin, Kabul, Bern, Vienna (at the US Mission to the IAEA), and Washington (on the India and Germany Desks). He has worked in-depth on a wide variety of international security, non-proliferation, disarmament, and arms control issues. Prior to joining the Foreign Service, Chris served on active duty as an Air Force intelligence officer in Utah and Saudi Arabia. A graduate of Georgetown University (B.S. Foreign Service) and The American University (M.S. International Communication), Chris also studied for a year at the Institut d'Etudes Politiques in Paris.

Jacek Bylica is the Principal Adviser and Special Envoy for Non-proliferation and Disarmament at the European External Action Service (EEAS) in Brussels, and has held the post since February 2013. Prior to joining the EEAS he was the Head of the Weapons of Mass Destruction Non-Proliferation Centre at NATO, since 2008. From 2004 to 2008 he was Poland's Ambassador to the UN Office and Other International Organisations and Control Regimes in Vienna. For over two decades in the Polish Foreign Service, H.E. Bylica divided his professional activities between Asia and international security affairs. He studied in Warsaw, Moscow, Beijing and Boston and holds degrees in International Relations and Law.

Richard Crowther is Chief Engineer at the United Kingdom (UK) Space Agency. He was Head of the Space Technology Division at the Rutherford Appleton Laboratory until 2008 with primary research interests in man-made orbital debris, planetary protection, and near Earth objects (asteroids and comets that pass close to the Earth). He is currently Head of the UK delegations to the Inter-Agency Debris Committee and the United Nations Committee on Peaceful Uses of Outer Space (UN COPUOS), in the past, he has acted as Chair of the UN Working Group on Near Earth Objects within COPUOS. Prof. Crowther also leads the UK delegation to the European Space Agency's International Relations Committee, and Space Situational Awareness Programme Board. He is one of the fifteen members of the Group of Governmental Experts appointed by the United Nations in 2012 to examine transparency and confidence building measures in outer space. He is a Chartered Engineer, a Fellow of the Royal Aeronautical Society, and was recently elected to the International Institute of Space Law and the International Academy of Astronautics.

Beatrice Fihn is the Manager of Reaching Critical Will. She monitors and analyses a wide range of disarmament negotiations and discussions at the UN. She joined Reaching Critical Will in 2010 and prior to this position, worked as a research officer at the Geneva Centre for Security Policy, where she carried out research on geopolitics and global security in areas such as outer space and emerging strategic technologies. Ms. Fihn is currently on the International Steering Group of the International Campaign to Abolish Nuclear Weapons, and is responsible for managing the campaign's international staff team as well as the development and implementation of strategy. She has a BA in International Relations from Stockholm University and a Masters of Law at University of London with a specialization in Public International Law.

Wu Haitao is currently Ambassador Extraordinary and Plenipotentiary for Disarmament Affairs and Deputy Permanent Representative of the People's Republic of China (PRC) to the United Nations Office at Geneva and Other International Organizations in Switzerland. Ambassador Wu was born in October 1962. He is a university graduate. From 1985-1989 Ambassador Wu was staff member and Attaché, Information Department, Ministry of Foreign Affairs (MFA) of the PRC. From 1989-1993 he was Attaché and Third Secretary, Permanent Mission of the PRC to the United Nations and Other International Organizations in Vienna. From 1993-1995 he was Third Secretary and Second Secretary, Department of International Organizations and Conferences in the MFA. In 1995 until 1997, he was Second Secretary at the Permanent

Mission of the PRC to the United Nations Office at Geneva and Other International Organizations in Switzerland. From 1997-1999, he was Second Secretary, Deputy Director and Director of the Department of Disarmament and Arms Control in the MFA. From 1999-2004, he worked as the First Secretary and Counsellor, at the Permanent Mission of the PRC to the United Nations (New York). From 2004 until 2010, he was Counsellor and Deputy Director-General at the Department of Disarmament and Arms Control in the MFA. From 2010 until November 2011, he was Minister Counsellor at the Permanent Mission of the PRC to the United Nations Office at Geneva and Other International Organizations in Switzerland.

Theresa Hitchens has been the Director of the United Nations Institute for Disarmament Research (UNIDIR) since January 2009. Previously, she was director of the Center for Defense Information and lead CDI's Space Security Project, in cooperation with Secure World Foundation. The author of "Future Security in Space: Charting a Cooperative Course," she wrote on space and nuclear arms control issues for a number of outside publications. She serves on the editorial board of The Bulletin of the Atomic Scientists, and is a member of Women in International Security and the International Institute for Strategic Studies. Editor of Defense News from 1998 to 2000, Hitchens has had a long career in journalism, with a focus on military, defense industry and NATO affairs. Her time at Defense News included five years as the newspaper's first Brussels bureau chief, from 1989 to 1993. From 1983 to 1988, she worked at Inside Washington Publishers on the group's environmental and defense-related newsletters, covering issues from nuclear waste to electronic warfare to military space. She has had a long interest in security policy and politics, having served internships with Sen. John Glenn, D-Ohio, and with the NATO Parliamentary Assembly in Brussels. She was director of research at the British American Security Information Council, a think tank based in Washington and London.

Li Juqian, Ph.D, is a professor at China University of Political Science and Law (CUPL), the Associate Dean of School of International Law of CUPL, the Associate Director of International Law Center of CUPL, a Standing Council-Member of China Space Law Institute, a Standing Council-Member of Beijing International Law Association, and a Council-Member of Space Security Council of the World Economic Forum. Prof. Li graduated in 1999 from CUPL, obtaining a PhD in Law, specializing International Law. His research field covers public international law, especially space law, and international economic law. Prof. Li obtained his Bachelor of Law in 1991 and a Master in International Economic Law in 1996, both from CUPL. Prof. Li has published many books and articles on international law and international economic law in Chinese and English. He has undertaken many research programs on international law, counselling government, industries and academic associations. He is a frequent speaker for international law forums. As visiting professor, he taught law in Korea in 2004 and 2005 and Iceland in 2006. He also acted as a teacher for Chinese astronauts (Taikonauts) in China Astronaut Center.

John Njoroge Kimani is the Director of the Kenya National Space Secretariat. He has a PhD in Physics from the University of Nairobi and has taught Physics at various institutions of higher learning. In this role, he is in charge of driving policy and implementing the Kenyan Space Programme Strategy. This includes coordinating all users of space-based information in the country. It also includes coordinating the implementation of agreements between Kenya and both Italy and the European Space Agency on the Luigi Broglio Space Station in Malindi, Kenya.

Andrey Malov is the Head of Division for Multilateral Disarmament in the Department for Security and Disarmament Affairs at the Ministry of Foreign Affairs of the Russian Federation.

Peter Martinez is the Chair 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 Chair of the COPUOS Scientific and Technical Subcommittee's Working Group on the Long-Term Sustainability of Outer Space Activities. He is also 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*.

Giacomo Mazzone is the current Head of Institutional Relations and of Members Relations South at the European Broadcasting Union (EBU). He is in charge of follow-up with members of the MENA region (Algeria, Morocco, Libya, Egypt, Jordan, Syria, Tunisia, Lebanon) and of the Northern shore of Mediterranean Sea (Italy, France, Spain, Malta, Cyprus, Greece, Turkey, and so on). He has been the head of the project in assisting the Tunisian National Broadcaster during the first multipartite elections (2011) and head of the special assistance projects for the other countries in the region (Libya, Egypt, etc.). He is also in charge of relations with the United Nations system (ITU, UNESCO, IGF, UNCTAD, etc.) and with the Council of Europe. Previously, he served for eight years as the EBU Head of Strategic Audit and Assistant to the Director-General. Mr. Mazzone has over 30 years of managerial experience in information, sport and international relations sectors and is an expert in European and international negotiations.

Paul Meyer (Ambassador ret.) is a Senior Fellow in Space Security and Nuclear Disarmament at The Simons Foundation, as well as Fellow in International Security at the Centre for Dialogue at Simon Fraser University in Vancouver, Canada. He joined the then Department of External Affairs in 1975 as a Foreign Service Officer and served abroad in Oslo (1976-1978), Moscow (1982-1984) and Brussels (1988-1992) where he was Political Counsellor in Canada's delegation to NATO. From 1992-1997, he served at the Embassy in Washington D.C. as Minister-Counsellor (Political) and from 2001-2003 as Minister and Deputy Head of Mission at the Embassy in Tokyo. In Ottawa, Mr. Meyer has held a variety of positions at the Department of Foreign Affairs and International Trade, primarily in the field of international security policy. He was Director-General of the International Security Bureau from 1998-2001. From 2003 to 2007, Mr. Meyer served as Ambassador and Permanent Representative to the Office of the United Nations and the Conference on Disarmament in Geneva. His responsibilities spanned a variety of issues and organisations including human rights, humanitarian affairs, global health and disarmament. From 2007 to his retirement from the Foreign Service in September in 2010, Mr. Meyer served as Director General of the Security and Intelligence Bureau at DFAIT (Department of Foreign Affairs, Trade and Development).

Jiyoung Park is a Research Fellow and the chair of the Science & Technology (S&T) Policy Program at the Asan Institute for Policy Studies. Previously, Dr. Park was a Research Fellow and managing Director of the Research & Development (R&D) Feasibility Analysis Center at the Korea Institute of S&T Evaluation and Planning (KISTEP). She was also a Visiting Research Scientist at the Center for Innovation at the University of Maryland. Her research interests include S&T security policy studies, the study of policy and management issues regarding nuclear technology, and evidence-based policy in S&T including economic analysis of R&D. She received a B.S. and M.S. from Seoul National University and a Ph.D. in Nuclear Engineering and Radiological Sciences from the University of Michigan. She also received an M.S. in Public Policy from Seoul National University.

Victoria Samson is the Washington Office Director for Secure World Foundation (SWF) and has more than fifteen years of experience in military space and security issues. Before joining SWF, Ms. 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 medial commentary. Prior to her time at CDI, Ms. 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.

Abdelrahim Suleiman is currently the Technical Director for the Arab States Broadcasting Union (ASBU) where he is involved in the development and introduction of new technologies in the Arab Region. His

latest project was the launch of New Radio and TV exchange system “MENOS”, the 2009 International Broadcasting Convention Award Winner. He has represented ASBU in several regional and international conferences and meetings. Additionally, he is an active member of the World Broadcasting Union Standing Technical (WBU-TC) and Operation (WBU-ISOG) Committees. Mr. Suleiman graduated from Khartoum University with a degree in Electronics and Communication Engineering; he started his career as a Radio and Television Transmission Engineer.

Vladimir Yermakov is Deputy-Director of the Arms Control Department at the Ministry of Foreign Affairs of the Russian Federation. Previous positions with the Russian Ministry of Foreign Affairs include Senior Counsellor at the Embassy of the Russian Federation in Washington, DC and Director for Arms and Technology Transfer Policy and Director for Political and Military Relations. Mr. Yermakov also worked in the Ministry’s Department of Africa. From 1982-1990, he served in USSR embassies in Senegal, Gambia, and Algeria. Mr. Yermakov has a Master’s Degree in International Relations from Moscow State University and a PhD in Political Sciences from the Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation.

Anatoly Zak is a writer and illustrator specialized in the history of space exploration. He is a publisher of RussianSpaceWeb.com and the author of *Russia in Space The Past Explained The Future Explored*, published by Apogee Prime in 2013. He is also a regular contributor to the *Air & Space Smithsonian* and the *Popular Mechanics* magazines among other publications. As a native of Russia, he attended School of Journalism at Moscow State University. Upon moving to the US, he earned journalism degree from Syracuse University's Newhouse School of Public Communications. During past 25 years, Zak contributed reporting, illustrations and commentary on space to BBC, CNN, *Space News*, *Technology Report*, *Wired.com* and many other mass media organizations around the world. His computer visualizations were used by NASA, European Space Agency and their major contractors, including Boeing and Alenia among many others. He was quoted by the *New York Times*, the *Los Angeles Times*, the *Washington Post* and by numerous other publications. Back in Moscow, he worked as a contributing editor for the *Astronomy and Cosmonautics* series of Moscow Polytech Society and later as an aviation and space reporter for the *Nezavisimaya Gazeta*, the first independent daily newspaper in Russia. He repeatedly visited all leading Russian space centers including Baikonur Cosmodrome and interviewed many legendary personalities in the Soviet space program, including Boris Chertok and Alexei Leonov.