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Institut des Nations Unies pour la recherche sur le désarmement

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## **‘THE ROLE OF NORMS OF BEHAVIOUR IN AFRICAN OUTER SPACE ACTIVITIES’**

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UN Conference Centre, Conference Room 5**

*Hosted by the United Nations Institute for Disarmament Research*

### **ABOUT THE CHAIRS AND SPEAKERS**

**Dr Joseph Olusola Akinyede** is Director of the African Regional Centre for Space and Technology Education in English (ARCSSTE-E), affiliated to the United Nations Office for Outer Space Affairs, and located within Obafemi Awolowo University campus, Ile-Ife, Nigeria. Dr Akinyede has also worked extensively as a Research Scientist at the Nigerian National Agricultural Land Development Authority (1992 – 2001) and National Space Research and Development Agency (NASRDA), Abuja, Nigeria (2001 – 2008). He is instrumental to the production of the National Geoinformation Policy and the implementation of the Nigerian Space Policy. He has represented Nigeria in many international fora including the annual sessions of the United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS).

**Mr Adebayo Babajide** is Chair of the Space segment of the European Union Council Working Party on Disarmament and Arms Control. He is attached to the European External Action Service’s Division for Disarmament and Non-proliferation, where he heads the sector for Global Disarmament and Space. Previous assignments of Mr Babajide include Deputy Permanent Representative of the EU to the International Atomic Energy Agency and the United Nations in Vienna, as well as postings to the Western Balkans and the Caribbean. Before joining the EU, Mr Babajide served in the Austrian Diplomatic service.

**Mr Oliver Barton** is the Nuclear Deterrence, Disarmament and Space Security Desk Officer at the UK Foreign and Commonwealth Office and the UK’s representative to the EU Committee for Disarmament and Non-Proliferation – Space (CODUN Space). Before that he was a Strategic Analyst at Defence, Science and Technology Laboratory, the research and analysis branch of the UK Ministry of Defence, providing policy analysis and advice upon a wide range of issues, including ballistic missile defence, deterrence and crisis decision-making. Mr Barton has an MA in War Studies from Kings College, London and read History at Christ’s College, University of Cambridge.

**Mr Ben Baseley-Walker** is Programme Lead of the Emerging Security Threats Programme (ESTP) at the United Nations 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 dialog 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 (SWF), 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 United Nations 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 International Space University Space Studies Programme in Beijing.

**Dr Tare Charles Brisibe** is the current Chair of the UN COPUOS Legal Subcommittee, for the biennium 2012 to 2013. He is currently Director of Regulatory Affairs at SITA / OnAir. He holds a PhD (Leiden University) in international law and post-graduate qualifications in Space Studies (International Space University). A member of the Nigerian Bar, Dr Brisibe began his professional career in 1991 practicing in the areas of civil litigation, general commercial law, mergers and acquisitions with Adegbite Adeniji & Co., (merged with ALEX in 2004); and Babalakin & Co. He served with Luxembourg-based, Le Goueff Attorneys and subsequently held an appointment with the International Regulatory Affairs Department – General Counsel’s Office, at Inmarsat Global Ltd (the privatized International Maritime Satellite Organization - INMARSAT) before joining the National Space Research and Development Agency of Nigeria, where he served as Deputy Director (Legal Services and International Co-operation).

**Dr Abdul-Hakim Elwaer** is the Director of the Department of Human Resources, Science and Technology (HRST) at the African Union Commission in Addis Ababa, Ethiopia. In this role, he is in charge of driving policy and implementing programs for the realization of the African Union vision in the area of science, technology and innovation, primary and high school education, and youth capacity development. He previously occupied the position of Director of Administration and Human Resources Management (AHRM) at AUC managing one of the most diverse directorates in the Commission.

**Dr Godstime James** is the head of Hazards and Environmental Management Division in the Strategic Space Applications Department of the National Space Research and Development Agency (NASRDA). He is also the Special Assistant (Technical Matters) to the Director General/Chief Executive officer of NASRDA. Since his assumption of duty at NASRDA, Dr James has been involved in the coordination of space application projects in the thematic areas of hazards and the environment. In addition, he coordinates the activities of the regional support office of the United Nations Platform for Space-Based Information for Disaster Management and Emergency Response (UN-SPIDER) in Nigeria; an office that is responsible for supporting West and Central African countries with space-based solutions to disaster management. Dr James has participated in several UN-SPIDER Technical Advisory Missions including the Missions to Togo, Cameroon, Nigeria, and Cape Verde. He has published extensively in highly-regarded journals and is currently a member of several professional bodies including the African Association for Remote Sensing of the Environment (AARSE), the American Association of Geographers (AAG), the American Society for Photogrammetry and Remote Sensing (ASPRS) and the Nigerian Institution of Surveyors.

**Professor Li Juqian** Ph.D, is a professor of China University of Political Science and Law (CUPL), Associate Dean of School of International Law of CUPL, Associate Director of International Law of CUPL, Standing Council-Member of China Space Law Institute, and Standing Council-Member of Beijing International Law Association. Prof. Li graduated in 1999 in CUPL obtaining a doctorate degree of law, specializing international law. His research field covers public international law, especially space law, and international economic law. Dr Li obtained his Bachelors degree in law in 1991, and Masters degree in International Economic law in 1996 in CUPL. Prof. Li has published around 15 books and 20 articles on international law and international economic law. 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 the China Astronaut Center.

**Mrs Margaret Maimba** is the Desk Officer for East African Community (EAC) activities on science & technology and space science & technology activities at the National Council for Science and Technology (NCST) of Kenya. She has served in several Standing Committees under National Environmental Management Authority (NEMA) and represents the Government of Kenya in the UN COPUOS and its Subcommittees. She has represented the Ministry of Higher Education, Science

and Technology (MoHEST) and the NCST in various Boards of Management and scientific fora both locally and internationally. She is a Founding Member (in 1995) of the African Association of Women Geoscientists (AAWG); a member of the Geological Society of Kenya (MGSK); Geological Society of Africa (GSAf); and a Registered Geologist. In recognition of her achievements in the field of geosciences, in 2011 she was awarded the Fellow of Geological Society of Kenya (FGSK) by the GSK.

**Dr 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 UN 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*.

**Ms Charlotte Mathieu** is in charge of security policy and institutional coordination in the EU Relations Office of the European Space Agency (ESA). She previously worked in the Security Strategy and Partnership Development Office of ESA Director General's Policy Office. From 2006 to 2009, she worked as a Research Fellow at the European Space Policy Institute (ESPI) in Vienna, Austria. Before joining ESPI, she was a research assistant at the Massachusetts Institute of Technology (MIT) where she conducted research for DARPA for two years. In 2003-04, she worked at ESTEC, ESA's main technical centre in the Netherlands. She interned at the CNES Washington Office, EADS Launchers and SNECMA. She holds a double Masters degree in aerospace engineering from the Ecole Centrale Paris, France, and the Royal Institute of Technology (KTH), Sweden, as well as a second Masters degree in Technology and Policy from MIT, USA. She also holds a degree in Economics from Université Pierre Mendès France, France.

**Dr Sias Mostert** is a co-founder and CEO of Space Commercial Services Holdings (Pty) Ltd and has been an active member of the space industry in South Africa since 1992. He started his career in space as the Development Manager on the SunSat micro-satellite program at Stellenbosch University from 1992 and is one of the founding members of SunSpace in 2000. He has played an important role in establishing the ARM constellation and the Sumbandilasat program. Currently he serves as a member of the IAA and as Vice-president Finance of the African Association of Remote Sensing of the Environment (AARSE).

**Mr Francis Ngantcha** is a career diplomat presently serving as Minister Counsellor at the Permanent Mission of the Republic of Cameroon to the United Nations Office and other international organizations in Geneva. He received his Phd in Law from the University of Geneva. He has served as a lecturer at the International Relations Institute of Cameroon and has published a text book on law of the sea. Mr Ngantcha has written several articles including one on disarmament which he attributes as the source of his interest in the peaceful use of outer space.

**Dr Mahama Ouedraogo** is the head of Science and Technology at the African Union Commission in Addis Ababa, Ethiopia. He has worked extensively in agricultural research for semi-arid areas in Africa, particularly as it relates to the thematic of food security and poverty alleviation through technology development for the improvement of production and productivity. He has taught part time at the University of Ouagadougou and contributed to the conception and coordination of various agricultural research projects on *Striga* control and biological control of crop pests in West and Central Africa. He has also been involved in the implementation of the UNCCD, Africa TPN6 Thematic Program Network on sustainable agricultural farming systems. As a director of the Scientific Technical Research Commission at the AU, he was involved in supervision and

coordination of science and technology projects for African development in Intellectual Property, infectious disease surveillance, traditional knowledge, and traditional medicine. He is very supportive of the AMCOST working Group on space which is drafting the African space policy and strategy. Dr Ouedraogo holds a PhD from Texas A&M University with major in plant breeding.

**Mr Daniel Porras** is the Space Project Manager of the Emerging Security Threats Programme (ESTP) at the UN Institute for Disarmament Research in Geneva, Switzerland. Prior to joining the ESTP team, he was an Associate Officer for the International Institute for the Unification of Private Law in Rome, Italy, where he worked on the finalisation of the Protocol to the Convention on International Interests in Mobile Equipment on Matters Specific to Space Assets. Mr Porras received his Bachelor degree in political science from Baylor University and his law degree from California Western School of Law. He is admitted to the California Bar and has published a number of scholarly articles on outer space law.

**Ambassador Gary Quince** is an economist with over 35 years of experience in international relations and development, including 30 years with the European Commission/ European Union. Much of this time has been spent working on and in Africa, including postings in Ghana, Kenya and Ethiopia. From 2005 to 2011, Ambassador Quince was Director for Africa, Caribbean and the Pacific at EuropeAid, European Commission. In this capacity he had overall responsibility for the implementation of the EC aid programme in over 100 countries, including Sub-Saharan Africa. Since November 2011 he has been the EU Head of Delegation to the African Union, based in Addis Ababa Ethiopia.

**Professor Babatunde Rabi** is a professor of physics and Director of the Centre for Atmospheric Research of the Nigerian National Space Research and Development Agency, located within the Campus of the Kogi State University, Anyigba. His research interest lies mainly in Ionospheric Physics, Space Weather and Solar Terrestrial Interactions. He was named the Young Scientist of the Year 2000 in Nigeria by the Third World Academy of Science in Italy, in collaboration with the Nigerian Academy of Science. He is a renowned space physicist with a passion for observational facilities in Africa. He was a postdoctoral fellow at the National Geophysical Research Institute, Hyderabad, India in 2004; and a visiting Associate Professor to the Solar Terrestrial Environment Laboratory of the Nagoya University, Japan in 2008. He is a visiting Professor to a number of African Universities and has been a regular visiting Professor to the Space Environment Research Center of Kyushu University, Japan since 2008. He is a member of many professional bodies including the American Geophysical Union, the African Geophysical Society, the Japan Geoscience Union, the Nigerian Institute of Physics, the International Academy of Astronautics and the US Institute of Navigation. At present, he is the national coordinator of the International Space Weather Initiative and serves on the International Steering Committee of UN/NASA-endorsed global cooperation.

**Dr Rajeswari Pillai Rajagopalan** is Senior Fellow at the Observer Research Foundation (ORF), New Delhi. Dr Rajagopalan joined ORF after an almost five-year stint at the National Security Council Secretariat (2003-2007), where she was an Assistant Director. Prior to joining the NSCS, she was Research Officer at the Institute of Defence Studies and Analyses, New Delhi. She was also a Visiting Professor at the Graduate Institute of International Politics, National Chung Hsing University, Taichung, Taiwan in early 2012. She is the author of three books: *Clashing Titans: Military Strategy and Insecurity Among Asian Great Powers*; *The Dragon's Fire: Chinese Military Strategy and Its Implications for Asia*; and *Uncertain Eagle: US Military Strategy in Asia*. Her research articles have appeared in edited volumes, and in *Strategic Analysis* and *CLAWS Journal*. Other writings have appeared in the *Journal of Strategic Studies*, *Journal of Peace Research* and *Contemporary South Asia* and she has also contributed essays to newspapers such as *Hindustan Times*, *Economic Times* and *Pioneer*. Her areas of research interest include Indian and Asian foreign policy and security issues, US foreign policy, space security and other arms control issues.

**Ms Jana Robinson** has been Resident Fellow at the European Space Policy Institute (ESPI) since December 2009, and leads the Institute's Space Security Research Programme. She has published a number of articles on space policy and space security in various journals. Prior to joining ESPI, she served as Development Director for the Prague Security Studies Institute (PSSI) from 2005-2009, a leading, Prague-based, nonprofit public policy organisation focused on security policy and studies. She was also responsible for the corporate establishment of PSSI Washington, a non-profit

organization in Washington D.C., closely affiliated with PSSI Prague. Previously, she held positions consistent with her academic background in Asian Studies. She holds an MA in Asian Studies from George Washington University's Elliott School of International Affairs, in Washington DC, specializing in Asia-Pacific security issues and space policy, and an MA in Asian Studies from Palacky University, Olomouc, Czech Republic. She received scholarships to attend the International Space University (ISU) 2009 Space Studies Program (SSP09), the 2008 Summer Mandarin Training Course at the Mandarin Training Center of the National Taiwan Normal University in Taipei, and Shanghai University in 1999–2000.

**Dr Solomon Belay Tessema** is Director of the Entoto Observatory and Space Science Research Center which is owned and operated by 31 public universities, one private university and the Ethiopian Space Science Society (ESSS). In this role, he is responsible for developing, promoting, capacity building, national and international collaboration in Astronomy, space science and related fields and operationalizing different research tools and services to benefit Ethiopia and the region as well. This role includes responsibility for teaching and research, project management, and leadership of the Research Center. Prior to assuming this position, Dr Solomon held a variety of activities to develop and popularize astronomy and space science in Ethiopia in addition to teaching research responsibility in the college. Dr Solomon is an Ethiopian scientist and academic, and is assistant Professor of Physics (Astrophysics) at Kotebe University College, Ethiopia. He completed his PhD in Astrophysics at the Addis Ababa University, Addis Ababa in Collaboration with University of Gothenburg, Sweden, in 2010. He was awarded the Certificate of Appreciation by the International Astronomical Union (IAU) in 2009. He is also one of the founding members of ESSS, serving Board members, and Head of Research Education program of ESSS since August 2012.

**Ms Thouraya Sahli Chahed** is in charge of the Space Activities Development Unit in the Tunisian Mapping and Remote Sensing Center. She studied Rural Engineering, specializing in soil and water conservation & forest (CES-Forest). Since 1992, her career has spanned operational applications of remote sensing capabilities, space applications for development and natural resource management programs, as well as projects regarding socio-economic needs and education. She has been Assistant Technologist in the Higher Institute of Technological Studies (ISET Nabeul, Tunisia) where she contributed, from 2003 to 2009, to the launch of the Department of Geomatics. As a part her of her teaching activities, she is in charge of management and communication actions, as well as promoting space technology and related sciences to potential users in different Ministries. From 2010, she was the Tunisian representative to UN COPUOS and its Subcommittees. She has delivered several presentations related to Tunisian national space activities and the CNCT. Currently, Ms Sahli Chahed is involved in the elaboration of a research program in the Mediterranean region using her skills and experience on project management and integrated solutions as well as her expertise on rural development and CES.

**Professor Abderrahmane Touzani** is the Director of the African Regional Centre for Space Sciences and Technology Education in French Language (CRASTE-LF), affiliated to the UN. He has been responsible for Image Processing courses and Remote Sensing in Unity of Training and Research (UFR) at the Mohammadia Engineering School (EMI) and Faculty of Sciences of Rabat at the Mohammed V University Agdal. Professor Touzani was Head of the Remote Sensing Applications Team in the Research Center of Space Studies from 1996 to 2003. As Director of CRASTE-LF, he has organised numerous sessions of Postgraduate courses (Masters Degree) in Space Sciences, Technologies in Remote Sensing, GIS, Satellite Communication, Satellite Meteorology and Global Climate, as well as short courses on Space Techniques and its applications. Professor Touzani has organized many international and regional workshops and conferences on space tools for development. He has also participated in numerous workshops and events organized by the Office for Outer Space Affairs of the United Nations (UN-COPUOS) where he presented papers on capacity building in different fields of space sciences and technology.

**Mr Tefera Waluwa** is a founding member and current Chairman of the Ethiopian Space Science Society (2004-present). A politician and member of the ruling party in Ethiopia, Mr Waluwa has formerly held the positions of Minister, Deputy Prime Minister & Minister of Defense, Mayor of Addis Ababa and Advisor to the Prime Minister.