Contributors

Philip De Man is a postdoctoral fellow at the Leuven Centre for Global Governance Studies and Institute for International Law at KU Leuven, Belgium. His research is funded by the Research Foundation – Flanders and covers multi-level interactions between national, European and international space law. De Man is a lecturer in international and European space law at the Master of Science in Space Studies of the Universities of Leuven and Ghent, Belgium. His recent publications include the monograph *Exclusive Use in an Inclusive Environment: The Meaning of the Non-Appropriation Principle for Space Resource Exploitation*, as part of the Space Regulations Library of Springer. De Man is core expert of the International Space Law Group at the MILAMOS project and a member of the Belgian delegation at the Legal Subcommittee of the United Nations Committee on the Peaceful Uses of Outer Space.

Mike N. Gold is the Vice President of Washington Operations and Business Development at Space Systems Loral (SSL). Previously, he was Bigelow Aerospace’s Director of DC Operations and Business Growth. He was also appointed by the US Secretary of Transportation to serve on and chair the Commercial Space Transportation Advisory Committee (COMSTAC). Additionally, he was appointed by the National Research Council to serve on the Space Technology Industry–Government–University roundtable which provides direction and advice to NASA’s Space Technology Mission Directorate. He dedicates his chapter to Meredith Francis, Darron Lincoln Francis-Gold, Richard White, Michelle Kley, Al Tadros, Ralph Bittelari, and David Ortiz, all of whom have made his time dealing with export control issues bearable.

Rik Hansen is policy officer at the Policy and International Relations Department of the Belgian Financial Services and Markets Authority (FSMA).

Andrea J. Harrington is Air and Space Law Instructor at the University of Mississippi School of Law and Erin J.C. Arsenault Fellow in Space Governance at the Institute of Air and Space Law, McGill University,
Canada. She is also a licensed attorney in the Commonwealth of Massachusetts. She has served as an Assistant Editor for the Annals of Air and Space Law, and as project manager and researcher on numerous projects, including for the FAA Center of Excellence for Commercial Space Transportation and the Secure World Foundation.

Christopher M. Hearnsey is Director of Legislative Affairs for Bigelow Aerospace, LLC in Washington DC. He previously served as Corporate Counsel for Bigelow Aerospace from 2013 to 2016. Prior to working at Bigelow Aerospace, he served as Deputy Chief Executive Officer for Programs and Special Projects for the Astrosociology Research Institute (ARI) from 2009 to 2013. He continues to serve as Chairman of the Board of Directors of ARI and Editor-in-Chief of The Journal of Astrosociology.

Thierry Herman is Legal Officer at the European Space Agency (ESA) where he provides legal advice for the execution of several ESA programmes, including the navigation and earth observation programmes. He previously held the position of expert in international relations at skyguide, the Swiss air navigation service provider. Prior to that he held the position of Strategy Officer at ESA, in which capacity he was seconded to the National Aeronautics and Space Development Agency of Japan (NASDA, now JAXA), and that of Executive Secretary of the European Centre for Space Law (ECSL). He studied law in Brussels, Belgium, and earned an LLM from the Institute of Air and Space Law, McGill University, Canada.

Armel Kerrest is Emeritus Professor of Public Law. He is Vice Chairman of the European Centre for Space Law of the European Space Agency. He has taught international law with particular focus on the law of the sea and space law at the Universities of Western Brittany and Paris South.

Jean-Bruno Marciacq is an aerospace safety expert at Swiss Space Systems (S3), a private company based in Payerne, Switzerland. From 2007 to 2014 he worked at the European Aviation Safety Agency (EASA) in Cologne, Germany. In parallel to being Project Certification Manager and Rulemaking Officer, he acted as the Sub-orbital and Orbital Aircraft (SOA) Coordinator for EASA. From 2001 to 2007 he worked as ESA Astronaut Safety Manager at the European Astronaut Centre (EAC) in Cologne, Germany.

Jean-François Mayence holds a Law degree from University of Brussels (ULB) and a special Master in Air and Sea Law. He has worked as legal
advisor for the Belgian Federal Office for Science Policy (Belspo) since 1 January 1999 and has covered the legal aspects of a variety of scientific and technological areas in which international cooperation plays a key role, including outer space, Antarctica, oceans, biology and biodiversity. He has chaired several working groups and committees in the European Space Agency and in UN COPUOS. He has been member of the Belgian Delegation in numerous intergovernmental bodies and conferences dedicated to international cooperation in outer space.

Ward Munters (Master of Laws, MSc in Space Studies) is a doctoral researcher at the Leuven Centre for Global Governance Studies and the Institute for International Law at KU Leuven, Belgium. His research is aimed at identifying crucial legal contours of legal terms of art and definitions for ‘space debris’ and ‘active debris removal’. In an effort to integrate the findings into international law proper, and as a means to ascertain the boundaries such legal terms of art should respect, his current focus is on the relationship between international environmental law and international space law.

Daniel P. Murray has 20 years of experience in the space industry, including the past 13 years with the FAA’s Office of Commercial Space Transportation, where he currently manages the Space Transportation Development Division. He serves as the co-lead of an FAA Joint Space Operations Group that addresses issues associated with integrating commercial space launch and re-entry operations into the National Airspace System. Prior to joining AST, he was a flight controller and software engineer supporting the Space Shuttle program at United Space Alliance in Houston, Texas.

Katrin Nyman-Metcalf is Head of the Chair of Law and Technology at Tallinn University of Technology and Head of Research at the Estonian e-Governance Academy. She is also active as an international consultant, working globally primarily in the area of communications law, including ICT regulation, privacy and data protection, media law, e-governance and various cyber issues. She has published extensively on issues related to law and technology as well as on regional integration. She represents Estonia in the International Relations Committee of the European Space Agency.

Lesley Jane Smith is Visiting Professor of Space Law at the University of Strathclyde, United Kingdom. She is a qualified solicitor, admitted to practise in the United Kingdom and Germany, and is a partner in the law firm Weber-Steinhaus & Smith in Bremen. She has an extensive command of the field of national and international space law, including
developments within Europe at agency and Union level. She is an expert on commercial space activities, particularly contracts, licensing of intellectual property, earth observation, as well as European competition and space procurement. In 2014 she was appointed General Counsel to the International Astronautical Federation in Paris.

Alexander Soucek is legal officer for public international law and space law at the European Space Agency (ESA). He previously held the position of programme coordinator in ESA’s Directorate of Earth Observation Programmes. He advises ESA’s International Relations Committee and represents ESA at the Legal Subcommittee of the UN Committee on the Peaceful Uses of Outer Space. He studied law in Salzburg, Austria, where he also worked as a scientific assistant in international law, and earned a master’s degree in space studies from the International Space University in Strasbourg, France. He teaches space law at various universities in Europe and has published books, commentaries and articles on the subject, including *Outer Space in Society, Politics and Law* (2011, co-edited with Professor C. Brünner) and *Space Law Essentials* (2015), an introduction to space law for law students and space practitioners.

Jeremy Stubbs is Programme Lead for Commercial Spaceflight Regulation at the Civil Aviation Authority. Previous positions at the Civil Aviation Authority include those of Flight Standards Officer and Manager of Flight Operations Policy (Commercial Aeroplanes). He has extensive practical experience as a captain at British Airways and CityFlyer Express.

Steven Wood provides technology commercialization services to more than 20 campuses of the State University of New York (SUNY) as the Assistant Director of Innovation Services with The Research Foundation for SUNY. He pursued an Advanced LLM program at the International Institute of Air and Space Law at Leiden University, the Netherlands, where he also worked in technology commercialization at the Leiden University Office of Research and Innovation Services. Prior to his current position at SUNY, Steven held positions at the US Department of Energy Brookhaven National Laboratory, the US Patent and Trademark Office, and in several start-up companies. He is a licensed S. patent attorney.

Jan Wouters is Full Professor of International Law and International Organizations, Jean Monnet Chair *ad personam* EU and Global Governance, and founding Director of the Institute for International Law and of the Leuven Centre for Global Governance Studies, an interdisciplinary
research centre with the status of Jean Monnet Centre of Excellence, at KU Leuven, Belgium. As Visiting Professor at Sciences Po (Paris), Luiss University (Rome) and the College of Europe (Bruges), he teaches EU external relations law. As Adjunct Professor at Columbia University he teaches comparative EU–US perspectives on international human rights law. He is a Member of the Royal Academy of Belgium for Sciences and Arts, President of the United Nations Association Flanders Belgium and practises law as Of Counsel at Linklaters, Brussels. He has published widely on international and EU law, international organizations, global governance and financial law. Apart from his coordination of large research projects and participation in international scientific networks, he advises various international organizations and governments, trains international officials and is often asked to comment on international events in the media. In the academic year 2016–2017 he was Visiting Professor at the Hebrew University of Jerusalem, and Herbert Smith Freehills Visiting Professor at the Lauterpacht Centre for International Law, Cambridge University.