Contributors

**Catherine Doldirina** works at the Joint Research Centre (JRC) in the field of legal and policy aspects of access to and use of geographic and earth observation data. She is engaged in legal research related to access to satellite remote sensing data and to space activities since 2005. Her expertise lies in the field of intellectual property law, some fields of European law, (geographic) data policies and regulations, as well as general questions of space law. In 2011 she defended her PhD thesis ‘Remote sensing data and the common good’ at the Institute of Air & Space Law, McGill University (Montreal, Canada). She has lectured on European competition law, European copyright law and space law at various universities in Canada and Europe. She authors work on various aspects of space law and is a member of the International Institute of Space Law (IISL). For the past two years she has been involved in the work of the Group on Earth Observations. She is a co-chair of the GEO Data Sharing Working Group and of its Legal Interoperability subgroup that conducts work on analysis and proposal of best policy and legal options for unrestricted access and use of resources shared through the Global Earth Observation System of Systems.

**Cécile Gaubert** is Vice President and Head of Legal and Claims with the Aviation & Space Department of Marsh France. She studied the draft UNIDROIT Space Assets Protocol at the European Center for Space Law (ECSL) with the European Space Agency, before joining Marsh in June 2000 as the legal adviser of the Space Team. Since May 2007 she has been in charge of the management of a team of five dedicated aviation and space legal specialists and claims handlers involved in aviation and space activities.

She holds a degree *(Diplôme d’Etudes Supérieures Spécialisées)* in European and Business Law from the University of Paris XI and a certificate from the European Centre for Space Law’s Summer Course.

She has published several articles relating to space insurance and has given a number of speeches and presentations to colloquia on specific topics of space insurance such as GNSS signal liability, space tourism and space debris among others. She is a member of various space-related institutes: IDEST *(Institut pour le Développement du Droit de l’Espace et des Télécommunications)* and IISL (International Institute for Space
Law). She has also been invited to French universities for lectures on space and aviation insurance.

Dr Peter Jankowitsch was Permanent Representative to the United Nations (New York), the OECD and ESA in the Austrian Foreign Service and a member of the Austrian Federal Government (Minister of Foreign Affairs) and the Austrian Parliament. While Chair of the UN Committee on the Peaceful Uses of Outer Space (1972–1991), several of the UN space treaties as well as some of the Principles on state activities in space were adopted.

Holding positions in UNISPACE 82 and 99, he also represented Austria in a number of international space conferences and organizations. Head of delegation in the Council of ESA (1993–1998), he was also a member of its Long Term Space Policy Group. In 2004 he was appointed to the ESA/EU High Level Space Policy Group. With Hubert Curien, one of the founders of EURISY, he helped in the launching of ESPI, later joining its Advisory Council. From 1998 he chaired the various supervisory bodies of the Austrian Air and Space Agency, representing it in many international bodies.

A member of the Board of Trustees of the International Academy of Astronautics, he chairs its Social Sciences Section and was also an Associate Editor of Acta Astronautica. Authorising various articles and publications on space law and international cooperation in space he has given numerous keynote addresses and presentations to conferences, workshops and academic seminars, advising inter alia the Scientific Advisory Board of the Cologne Commentary on Space Law.

An Honorary Board Member of the IISL, he received the Allan D. Emil Memorial Award for International Cooperation in Astronautics in 1981, and the Social Sciences Award of the IAA in 2001. A commander of the Legion d’Honneur, he also holds numerous other awards.

Professor Dr Irmgard Marboe is Professor of International Law at the Department of European, International and Comparative Law at the Law Faculty of the University of Vienna. She has been the head of the Austrian National Point of Contact for Space Law of the European Centre for Space Law since 2009.

Between 2009 and 2011 she was involved in the drafting of the Austrian Outer Space Act, which entered into force on 28 December 2011. From 2008 to 2012 she was the chair of the Working Group on National Space Legislation of the Legal Subcommittee of the UN Committee for the Peaceful Uses of Outer Space, which led to the formulation of ‘Recommendations on national legislation relevant to the peaceful exploration and use of outer space’ adopted by the United States.
Nations General Assembly as Resolution A/AC.105/RES/68/74 on 11 December 2013.

She is the editor of the book *Soft Law in Outer Space – The Function of Non-Binding Norms in International Space Law* (Vienna 2012). Other publications in the area of space law deal with telecommunications and space, national space legislation, and the return of space objects and the rescue and return of astronauts. Further research focuses include international investment law, international arbitration, culture and religion in international law as well as Islam and international law. She has been invited as a speaker to numerous international symposia and workshops and teaches international law and space law at the University of Vienna and other universities.

**Russell Louis ‘Rusty’ Schweickart** is a former US astronaut, research scientist, US Air Force fighter pilot, and business and government executive. He earned a B.S. and M.S. in Aeronautics/Astronautics from the Massachusetts Institute of Technology in 1956 and 1963 respectively.

Chosen in NASA’s third astronaut group, he is best known as the Lunar Module pilot on the Apollo 9 mission, the first manned flight test of the Lunar Module, on which he performed the first in-space test of the Portable Life Support System used by the Apollo astronauts who walked on the Moon. As backup commander of the first Skylab mission, he was responsible for developing the hardware and procedures used by the Skylab crews to perform critical in-flight repairs of the Skylab station. After Skylab, he served for a time as Director of User Affairs in NASA’s Office of Applications.

He left NASA in 1977 to serve for two years as California governor Jerry Brown’s assistant for science and technology, then was appointed by Brown to California’s Energy Commission for five-and-a-half years, serving as chairman for three. He took the initiative to establish the Association of Space Explorers in 1984 with the support of several other astronauts and cosmonauts. As part of his activities there, he also initiated the ASE NEO Committee and chaired it for its first seven years. He is furthermore co-founder and currently Chairman Emeritus of the Board of the B612 Foundation, a group that aims to defend earth from asteroid impacts.

In addition, he *inter alia* was Executive Vice President of CTA Commercial Systems and Director of Low Earth Orbit Systems, where he led CTA’s efforts in developing a second generation LEO communication satellite constellation designed to provide regular commercial electronic messaging services on a global basis. Prior to his CTA work he had founded and was president of Courier Satellite Services, a global satellite
communications company, which developed LEO satellites to provide worldwide affordable data services.

His satellite and telecommunications work involved him in the development of international communications regulations and policies, including participation in the 1992 and 1995 World Radiocommunications Conferences of the International Telecommunication Union (ITU). He also served at the 1995 WRC as a US delegate. Finally, he worked extensively in Russia and the former Soviet Union on scientific and telecommunications matters.

Carla Sharpe is a graduate of the University of Cape Town Commerce Faculty and the International Space University Executive MBA Programme. She is currently reading for her PhD in Space Science Economics. Carla is a founding member of the South African Space Association as well as Women in Aerospace Africa. She is also a member of the Royal Aeronautical Society and the International Institute of Space Law (IISL). Her research and papers focus on the sustainable development of space activities within developing nations from an economic and policy perspective. She currently leads business and economic development for the Square Kilometre Array Africa (SKA Africa) Project Office. She has co-organised several symposia and conferences in South Africa including the International Astronautical Congress (IAC), hosted in Cape Town in 2011.

Professor Dr Lesley Jane Smith has been a full Professor of international and European economic law at the Leuphana University in Lüneburg, Germany, since 1996 and is a Visiting Professor for space law at the University of Strathclyde, Scotland. She is a qualified member of the bar (UK/Germany) and partner in the law firm of Weber-Steinhaus & Smith, Bremen. She was Rector at the Riga Graduate School of Law, University of Latvia, for a period of two years from 2007 to 2009.

She has written widely on the subject of international space law, particularly commercial space law and intellectual property. She is an expert on developments within the European Union relating to its emerging space programmes and policy.

She is a member of the editorial committee of ‘Studies in Space Law’, published by Brill, Netherlands. She is a member of the International Academy of Astronautics (IAA), a Board Member of the International Institute of Space Law (IISL) and Board Member (Legal) for Women in Aerospace Europe (WIA-E).

Professor Dr Mark Sundahl is the Associate Dean for Administration and Professor of Law at Cleveland State University’s Cleveland-Marshall
College of Law, where he teaches Space Law and International Business Transactions.

He has written and lectured broadly in the field of space law and focuses primarily on the business, legal and policy issues arising from commercial space activity. He recently published *The Cape Town Convention: Its Operation and Relation to the Law of Outer Space* (Brill 2013). He is a member of the Commercial Space Transportation Advisory Committee (COMSTAC), which advises the Federal Aviation Administration regarding new regulations governing private space activity. He is also a Member (and former Assistant Secretary) of the International Institute of Space Law and serves of counsel to The Law Offices of Jon P. Yormick Co., L.P.A. where he heads the firm’s Aerospace and Defense Practice.

**Dr Fabio Tronchetti** is an Associate Professor of Law at the School of Law of the Harbin Institute of Technology, People’s Republic of China, and an Adjunct Professor of International Space Law at the School of Law of the University of Mississippi, United States. Previously he was Lecturer and Academic Coordinator at the International Institute of Air and Space Law, Leiden University, the Netherlands. He holds a PhD in International Space Law (Leiden University) and an Advanced LL.M in International Relations (Bologna University, Italy). He has participated as a speaker in several international conferences on space law and public international law matters and published numerous articles in the fields of space law and policy, European law and public international law. He is the author of the books *The Exploitation of Natural Resources of the Moon and Other Celestial Bodies: A Proposal for a Legal Regime* published by Martinus Nijhoff/Brill, and *Fundamentals of Space Law and Policy*, published by Springer. He is Member of the International Institute of Space Law, the European Centre for Space Law, and the Asian Society of International Law.

**Dr Peter van Fenema** is Adjunct Professor of Law at McGill University, Institute of Air and Space Law (Montreal, Canada). As a graduate of Leiden University, the Netherlands, he obtained his LL.M degree from McGill University in 1973 with a thesis on the UN Space Liability Convention of 1972. For almost 25 years he worked for KLM Royal Dutch Airlines, primarily in the field of (the negotiation of) bilateral air transport agreements, and for the last seven years was its Vice President government and industry affairs. In September 1999, two years after his departure from KLM, he obtained his Doctor of Laws degree from Leiden University with a thesis on space transportation law and policy.
and export controls, entitled ‘The international trade in launch services –
The effects of U.S. laws, policies and practices on its development’.

He currently teaches (part-time) at McGill University, and frequently
lectures on air and/or space law and policy at other institutions world-
wide. He is a member of the Board of Editors of Air and Space Law, a
bi-monthly published by Kluwer Law International. On behalf of the
Netherlands Civil Aviation Authorities he was appointed Air Transport
Expert for Mediation/Dispute Resolution at ICAO, Montreal. He is a
member of the European Aviation Club, the European Air Law Associa-
tion (EALA), the International Institute of Space Law (IISL) and the
European Centre for Space Law (ECSL). He is also the author of a
number of articles on both air and space law and policy, and is active as
a consultant in these fields.

Professor Dr Lotta Viikari (Doctor of Laws and Licentiate of Admin-
istrative Sciences) is Professor of Public International Law at the Faculty
of Law, University of Lapland (since 2008). She is also Director of the
Institute of Air and Space Law, University of Lapland (since 2009).
Previously, she has worked as a researcher in various research projects
and institutions. She has also served as Assistant Professor in Constitu-
tional Law and International Law (University of Joensuu) and Acting
Professor of Private International Law (University of Lapland).

She has published especially in the areas of space law and policy,
international environmental law, and law of the sea. Her publications
include three monographs of which The Environmental Element in Space
Law: Assessing the Present and Charting the Future (Studies in Space
Law 3, Brill) was awarded the Social Science Book Award of the
International Academy of Astronautics in 2009 and the Finnish Lawyers’
Society Award for the best legal PhD dissertation in Finland in 2007.

Professor Dr Frans von der Dunk has held the Harvey and Susan
Perlman Alumni/Othmer Chair of Space Law at the University of
Nebraska-Lincoln’s LL.M. Programme on Space, Cyber and Tele-
communication Law since January 2008. He also is Director of Black
Holes BV Consultancy in space law and policy, based in Leiden. He was
awarded the Distinguished Service Award of the International Institute of
Space Law (IISL) in Vancouver, in October 2004, and the Social Science
Award of the International Academy of Astronautics (IAA) in Valencia,
in October 2006. He defended his dissertation on ‘Private Enterprise and
Public Interest in the European “Spacescape”’ in 1998 at the University
of Leiden.

He has written more than 130 articles and published papers, given
more than 140 presentations at international meetings and has been
visiting professor at over 30 universities and other academic institutions across the world on subjects of international and national space law and policy, international air law and public international law. He has (co-)organised some 20 international symposia, workshops and other events, and has been (co-)editor of a number of publications and proceedings. As of 2006, he is the Series Editor of ‘Studies in Space Law’, published by Brill.

He has acted as legal advisor or legal task manager in more than 90 projects, advising various government agencies and international organisations as well as a number of non-governmental organisations and industrial stakeholders on matters of space law and policy, including major space applications such as satellite navigation, remote sensing and private commercial spaceflight.

Professor Dr Maureen Williams was educated at the Universities of Buenos Aires, Paris, Oxford and London (UCL) and has been visiting professor at the Lauterpacht Centre for International Law (Cambridge), Tulane University (New Orleans) and the Max Planck Institute (Heidelberg). Her doctoral thesis on Telecommunication Satellites was awarded first class honours. She holds chairs of international law in Argentina at the University of Buenos Aires and Belgrano University (Buenos Aires) and is currently a Senior Career Scientist (informatora superior) at the National Council for Scientific Research of Argentina (CONICET) and Director of Research Projects in International Law (www.conicet.gob.ar).

She is Chair of the Space Law Committee of the International Law Association (ILA) and Council member thereof, Member of the Board of Directors of the International Institute of Space Law (IISL) and the Ibero-American Institute of Air and Space Law in Madrid. She is full member of the International Academy of Astronautics and the Royal Institute of International Affairs in London and formed part of the Group of Experts of the Permanent Court of Arbitration for the drafting of rules for dispute settlement in space law.

She is part of the Group of Experts on the Teaching of Space Law, UNOOSA, Vienna. In June 2013 she represented the legal area in a Panel of Experts commemorating 50 years of women in space (COPUOS). She is author of various books and around 250 articles on international law/space law in the United Kingdom, Argentina, the United States, Germany, Spain and Brazil, among others.