Contributors

GÖRAN BERNDES is Associate Professor of Physical Resource Theory in the Department of Energy and Environment at Chalmers University of Technology, Sweden. His research integrates land use and energy systems at scales ranging from local case studies to the global context. The research is in particular directed towards land use and how good resource management – benefiting from complementarity of different systems – can deliver food, biomaterials and bioenergy while maintaining or improving the state of land, water and other essential resources. Important aspects include: (i) effectiveness of different ways to produce and use biomass for energy, using long-term energy system modelling and life cycle/well-to-wheel analyses linked with land use change modelling and assessment of the associated flows of carbon and other matter; and (ii) resource, environmental and socioeconomic implications of bioenergy strategies and also of the alternative strategy to use land for enhancement of biospheric carbon sequestration.

MIGUEL BRANDÁO is Associate Professor in Industrial Ecology and Life Cycle Assessment at KTH Royal Institute of Technology, Stockholm, Sweden. Over the last 10 years, he has taught and researched on life cycle assessment (LCA). His main interest is on the use of industrial ecology and life cycle approaches to support decision-making regarding our transition towards a sustainable society. His research has focused on the integrated sustainability assessment of land-use systems, with emphasis on their impact on climate change, resource depletion, ecosystem services and biodiversity. Miguel is the Task Manager of IEA Bioenergy Task 38.

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ANNETTE COWIE has a background in plant nutrition and soil science, with particular interest in sustainable resource management. She is Principal Research Scientist Climate Policy in the New South Wales
Department of Primary Industries, Australia. Her research focuses on greenhouse gas (GHG) accounting and carbon dynamics in the land sector, investigating key aspects of carbon sequestration modelling, biomass estimation, soil carbon dynamics, and life cycle assessment of GHG impacts of carbon sequestration, bioenergy and biochar systems. She contributes to development of policy for GHG abatement, including GHG accounting for emissions trading at state, national and international levels. She leads the international collaborative research group IEA Bioenergy Task 38 “Climate Change Effects of Biomass and Bioenergy Systems”. Annette contributed to the International Organization for Standardization process developing the standard for quantifying and communicating the carbon footprint of products, and the process for developing sustainability criteria for bioenergy.

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JEREMY de BEER creates and shapes ideas about technology innovation, intellectual property, and global trade and development. He is a tenured Full Professor of Law at the University of Ottawa’s Centre for Law, Technology and Society, Canada. With a cutting-edge research agenda, he and his collaborators have attracted more than $15 million CAN in funding since 2006. He is the co-founder and director of the Open African Innovation Research (Open AIR) network, a multi-disciplinary group of international experts, and co-author/editor of five books, including Intellectual Property and Innovation: Collaborative Dynamics in Africa. As a practising lawyer and legal expert, he has argued numerous cases before the Supreme Court of Canada, advised businesses and law firms both large and small, and consulted for agencies from national governments and the United Nations. He is online at www.JeremydeBeer.com.
OSKAR ENGLUND’s research is on the production and use of biomass, in different sectors and on different scales, and its environmental and socioeconomic implications. Primarily, his research contributes to the understanding of: (i) the extent to which biomass can be used for energy; and (ii) the role of governance in safeguarding sustainability. He places a particular interest in trade-offs between different goals and objectives, concerning, for example, climate change, energy security and food security. This often requires a multidisciplinary approach where he integrates, for example, spatial and economic modelling, and policy analysis.

LARA B. FOWLER is a mediator and an attorney who focuses on environmental and natural resource law. She now holds a joint appointment as a Senior Lecturer at Penn State Law and as the Assistant Director of Outreach and Engagement with the Penn State Institutes of Energy and the Environment, USA. In this role, she is researching how water and conflict play out in a region that includes Marcellus Shale development, biofuels, the Chesapeake Bay, and flood-prone rivers. Prior to joining Penn State in 2012, she worked on public policy issues for the Oregon Water Resources Department, attended the University of Washington School of Law, and practised with a law firm in Seattle, Washington. As a private practitioner, she mediated issues such as groundwater storage rights in the greater Los Angeles area; chronic flooding issues in Washington State’s second largest river basin; and reallocation of water supplies in Oregon’s Deschutes River Basin. In addition, she counselled private clients on various regulatory matters, both water- and energy-related.

ALEXANDRE GENEST is currently completing a double PhD at the Faculties of Law of the Universities of Leiden in Belgium and Canada. A Vanier Canada PhD Scholar (2012–15), he focuses his PhD research efforts on performance requirement prohibitions in international investment law. He is also currently Law Clerk and University Trainee to His Excellency Peter Tomka, Judge at the International Court of Justice. He graduated from the Faculty of Law of the Université de Montréal and has been a lawyer (Québec Bar) since 2007. He completed a Diploma in Public Administration at the École Nationale d’Administration of France (ÉNA) and a Master’s Degree in Public Affairs at the Université Paris-Dauphine (2011). He was part-time Professor at the University of Ottawa from 2012 to 2014, and then Visiting Lecturer and Course Instructor at Leiden University College (LUC) The Hague in the fall of 2014. He has acquired valuable working experience from the following organizations: Davies Ward Phillips & Vineberg; the FAO Trade Policy Section; the Investment Division of the Trade Law Bureau (JLT) at
LEI GUO graduated from Law School, Wuhan University, China (Bachelor of Law 2007, Master of Environmental Law 2010 as outstanding graduate). Since October 2010, she has been working on her PhD at the Department of Public International Law under the supervision of Professor Dr Frank Maes (promotor) and Professor Dr Tianbao Qin (co-promotor) on the topic of “The Use of Biofuels According to International Law: A Comparison between EU and Chinese Implementation”. Her research focuses on the main legal issues regarding biofuels from the perspective of relevant international law and also proposes a comparative study of implementation of biofuels regulations in the EU and China. She has presented on this topic in international conferences in the United States, Belgium, China, Spain and the Netherlands.

MARIE-HÉLÈNE LABRIE is Senior Vice President, Government Affairs and Communications at Enerkem. Previously, she worked in communications, business strategy and market analysis as Director of Marketing and Strategic Planning at CAE, and as a consultant for numerous organizations, such as Oliver Wyman Delta Organization & Leadership and Desjardins Financial Security. She began her career at the Government of Canada, in the Department of National Defence, and pursued it at Industry Canada and the Privy Council Office. She is Vice-Chair of the Board of Directors of Écotech Québec, a cleantech cluster, and she is a member of the Board of Directors of the Canadian Renewable Fuels Association the “Conseil des entreprises en technologies environnementales du Québec”. She represents Enerkem at the Advanced Biofuels Business Council in Washington and is actively involved in public policy advocacy in Europe. She holds a Master’s in International Business and a Bachelor of Business Administration from Université Laval in Québec.

YVES LE BOUTHILLIER teaches in international law, specifically in the areas of international environmental law, international human rights law, and in related areas such as immigration and refugee law. Most of his publications are on international law issues. He is currently Director of the IUCN Academy of Environmental Law, whose Secretariat is located at the Faculty of Law of the University of Ottawa, Canada. He has co-edited the following books for the IUCN Academy of Environmental Law published by Edward Elgar: *Climate Law and Developing Countries; Environmental Governance and Sustainability; and Poverty Alleviation and Environmental Law*. From June 2005 to December 2006 he was President of the Law Commission of Canada and subsequently a member of the
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**ELODIE LE GAL** completed her PhD at the Australian Centre for Agriculture and Law at the University of New England, Australia, in 2013. In her doctoral thesis she researched the implementation of innovative institutional arrangements incorporating market-based instruments and legislation to address the environmental risks from second-generation biofuel weed crops. Previously, she obtained a Master of Laws (Diplôme d’Etudes Approfondies) in Private International Law/International Business Law from the Pantheon-Assas Faculty of Law, Paris. In France, she worked both in the commercial and non-profit sectors in the field of international project development and sustainability project development for ethnic communities. Since her arrival in Australia in 2007, she has been involved in various natural resource management (NRM) research and training projects, focusing on different theoretical and practical aspects of environmental sustainability, and natural resource governance issues. In 2013, she joined the Australian Centre for Agriculture and Law for a four-year postdoctoral research fellow position undertaking institutional research with the Invasive Animals CRC Program 4. This programme is concerned with facilitating and supporting effective community action for the control of invasive animals and is headed by Paul Martin.

**ODILE JULIETTE LIM TUNG** holds a PhD from the Faculty of Law of the University of Montpellier I, France as well as a Master’s in Law and a Bachelor’s in Law from the same university. She taught environmental law, public international law, contract law and tort law as a lecturer at the Department of Law of the University of Mauritius (Mauritius) until 2012. From March 2012 to 29 February 2016, she was a postdoctoral research fellow at the Faculty of Law of the North-West University (South Africa) undertaking research on the adequacy of the South African legal and policy framework on Genetically Modified Organisms (GMOs). She is currently the recipient of a postdoctoral research fellowship at the Mandela Institute (School of Law, University of Witwatersrand, South Africa). Previously, from 2004 to 2008, as a member of the National Invasive Alien Species Committee, she actively participated in drafting the National Strategy and Action Plan for Invasive Alien Species (2008–17) in Mauritius. She joined the Multidisciplinary Centre of Excellence (MCE) on Environment, Energy and Water of the University of Mauritius in 2005 and became a
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LAUREN D. MALO is a Master of Science candidate in the Department of Geography at Queen’s University, Ontario, Canada. She recently completed her undergraduate degree in Environmental Science at Queen’s. Her research interests cover a variety of topics related to bioenergy production from both a Canadian and global perspective. In particular, her research is focused on quantifying the changes in forest biomass in response to climatic changes, how this impacts the environmental sustainability and
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MAHA MANSOOR is a Master of Environmental Studies and Juris Doctorate candidate at York University, Toronto, Canada. Prior to coming to York University, she completed her BSc at the University of Toronto. Her major research focus is on transnational business regulation and the role of non-state global governance with a particular focus on market mechanisms in forest governance, and the relationship between international environmental law and domestic policy-making.

PAUL MARTIN is the Director of the Australian Centre for Agriculture and Law, University of New England, Australia (www.une.edu.au/aglaw), and the Deputy Head of the School of Law. With his team, he conducts empirical and policy studies of law and governance, sustainability, and other key rural issues in Australia, Central Asia, the USA and Iceland. He has published more than 100 books, scholarly papers and policy studies on numerous topics including landscape governance, invasive species, biofuels policy and indigenous social justice. Among the significant studies being conducted through the Centre at the time of publication are investigations of the future “architecture” of rural landscape governance, a five-year programme on laws and policies to enable community action on invasive species control, work on rural conflict over mining and energy, and leadership of the legal component of an IUCN project on the effectiveness of environmental governance on behalf of the IUCN World Commission on Environmental Law.

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**PAUL M. SMITH** is a Professor of Bio-Products Marketing at Penn State University, USA and Adjunct Professor at Washington State University, USA where he teaches Bioproducts Marketing and Sales. Dr Smith is the author or co-author on over 150 research and technical publications. He is a Fellow and Past President of the Society of Wood Science & Technology (SWST), past Chair of the National (US) Planning Committee for Forest Products Research, and currently serves on the Forest Products Society Executive Board. Dr Smith’s industry experience includes five years as an industrial forester in Colorado and Montana and two years as operations manager for a wood products export-trading company in the Pacific Northwest (USA). He has consulted for the ITTO (International Tropical Timber Organization – Yokohama, Japan), the FAO (Food and Agricultural Organization – Rome, Italy), over a dozen US industry trade associations, and over 80 private firms. Dr Smith’s research addresses markets for biorefinery value chain outputs as well as aviation fuel stakeholder assessment and community social asset mapping. His other active research projects include market adoption and diffusion of engineered wood products, international trade show use and effectiveness, and reliability of content analysis in B2B promotions.

**TAT SMITH** is Professor and Dean Emeritus (Forestry) at the University of Toronto, Canada. Prior to coming to Toronto in 2005, he was Professor and Head of the Department of Forest Science at Texas A&M University from January 1999 to June 2005; Programme Manager for the New Zealand Forest Research Institute from 1993 to 1998; and was a professor in the
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SAMPO SOIMAKALLIO is a Senior Scientist at the Finnish Environment Institute (SYKE), Helsinki, Finland. He has more than 15 years of experience in techno-economic assessment of various climate change mitigation measures. He holds a doctoral degree of Science in Technology and a title of Docent in Environmental Sciences. Among his main research interests is the development of appropriate, reliable and applicable methods for assessing life cycle climate impacts of biomass and bioenergy systems. Sampo has been Finnish National Team Leader of IEA Bioenergy Task 38 since 2004.

INGE STUPAK is Associate Professor at the University of Copenhagen, Denmark. She is the Danish National Team Leader in IEA Bioenergy Task 43 “Biomass feedstocks for Energy Markets”. Her major research contributions and research management responsibilities have been focused on the environmental impacts of woody biomass production in forest and short rotation crops, and sustainability governance of bioenergy. Research topics include: criteria and indicators for sustainable biomass and bioenergy production, sustainability standards and certification systems, stakeholder experiences and views on certification with focus on woody biomass; effects of mineral and organic fertilizer application on yield and nutrient cycling in forest and short rotation coppice systems; effects of land use and land cover changes, from annual agricultural crops to forest or short rotation coppice on soil carbon; and quantification of ecosystem services. She has also participated in teams providing technical assistance to the EU for an evaluation of international schemes to promote biomass
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VICTOR M. TAFUR practises in the fields of administrative law, commercial law, energy law, environmental law, and international environmental law, as well as arbitration and conflict resolution in these areas (www.victortafurlaw.com). As an academic, beginning in 2005, he has taught climate, energy and environmental law, and has focused his research primarily on energy and environmental law and policy in Latin America, the subject of his doctoral dissertation. He has been co-author of various books and author of various papers in these subjects, and writes an opinion column in El Espectador, Colombia’s main newspaper (www.elespectador.com). Currently, Dr Tafur – based in New York – practises environmental law and land use law as well as international environmental law, mainly in Latin America. He is Visiting Professor of Environmental Law at Bard College, Center for Environmental Policy, New York, and Adjunct Faculty at Pace University, School of Law, New York. In addition, he is a member of the IUCN World Commission on Environmental Law and of the Bar Associations of the City of New York and the State of New York. He obtained a Doctor of Juridical Science (SJD) in Environmental Law at Pace University, New York.

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