

Dr. Florian KRAXNER

Research Group Leader | Principal Research Scholar |

Agriculture, Forestry, and Ecosystem Services (AFE)

Biodiversity and Natural Resources Program (BNR)

International Institute for Applied Systems Analysis (IIASA)

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Visiting Professor | Korea University |

Environmental Science and Biotechnology, Seoul, South Korea



Bio

In his role as the Deputy Program Director, Dr. Kraxner managed the IIASA Forestry (FOR) and Ecosystems Services and Management (ESM) Programs for the past 12 years, and he headed the institute's Center for Landscape Resilience & Management (CLR) for the past five years. In 2021, Florian Kraxner has been appointed Head of the Agriculture, Forestry, and Ecosystems Services Group at IIASA, where - together with his team - he is focusing on biophysical ecosystems, land use, and landscape modeling including forestry, agriculture, and renewable energy systems optimization. He has also been the leader of IIASA's renowned Tropical Futures Initiative (TFI), and his research includes a broad portfolio reaching from forest and landscape restoration, Carbon Dioxide Removal Technologies (CDR) from Nature-based and Nature-Climature Solutions (NBS/NCS), ecosystems services assessments and related sustainability aspects, up to environmental safeguards assessments including forest management certification. Biodiversity is a cross-cutting theme and subject of ongoing efforts to improve the existing integrated biophysical land modeling tools in this respect. Further to a broad project portfolio at IIASA, Dr. Kraxner is also the principal investigator of a large-scale research and capacity-building project called RESTORE+, which aims at assessing landscape restoration with a particular focus on biodiversity in Indonesia and Brazil. The project is funded by the German BMU/IKI (7.2 mio. EUR/2017-2022). Florian Kraxner is particularly interested in the socio-economic and ecological sustainability of natural resources management. Among other roles, he serves on various scientific boards within the frameworks of Future Earth, IUFRO, or the Asian Resilience Center, and he is president of the International Boreal Forest Research Association (IBFRA). Dr. Kraxner is also an official Austrian representative to several forest-related expert groups and teams under the FAO/UN-ECE Timber Committee. Dr. Kraxner has been the host, organizer, and scientific chair of the large international 18th IBFRA Conference on Cool Forests, held in 2018 at IIASA premises in Laxenburg, Austria. Further to his advisory roles on various boards, he has been invited to join multiple international scientific activities including the International Energy Agency / IEA Bioenergy, the Austrian Academy of Sciences, the International Union of Forest Research Organizations (IUFRO), the Environmental Defense Fund (EDF/US), the ClimateWorks Foundation (US), or the World Resources Institute (WRI/US, Prof. Jennifer Wilcox - now PDAS of Fossil Energy at DOE) with whom he developed and co-authored the world's first "Carbon Dioxide Removal Primer" (<https://cdrprimer.org>), supported and funded by major US research organizations and philanthropic foundations.

Since 2006, Florian Kraxner has also been a visiting researcher with Japan's National Institute for Environmental Studies (NIES) to work on integrated urban-rural development concepts. As of 2020, Dr. Kraxner holds a visiting professorship with the Division of Environmental Science and Biotechnology, College of Life Sciences and Biotechnology, Korea University (KU), Seoul, South Korea.

Dr. Kraxner holds a PhD in Environmental Sciences from Hokkaido University Sapporo, and Bachelor and Master's degrees from the BOKU-University in Vienna, specializing in forestry, mountain risk engineering, and watershed management. Since 2000, he has further been working in the fields of forest products certification and public opinion on the forest sector, inter-alia for EFI/Innoforce, MCPFE/Forests Europe, and FAO/UN-ECE. As a university lecturer at various international universities and international summer schools, Dr. Kraxner gathered distinctive teaching skills in the socio-economics of forestry, forest policy, bioenergy, and wild land fires.

Prior to joining IIASA, Florian Kraxner also co-developed and coordinated BOKU's International Mountain Forestry Master Courses "MSc Mountain Forestry" and "MSc Natural Resources Management and Environmental Engineering (Double Degree with University of Christchurch, NZ)".

Publications	110+ peer-reviewed publications including SCIENCE, SCIENCE Advances, NATURE, NATURE Climate Change, NATURE Scientific Reports, NATURE Scientific Data, PNAS, etc: Editor of 8 books and (co-) author with 30+ book chapters, 60+ reports and working papers
H-factor	41 (Google Scholar) / 34 (Scopus)
ORCID ID	0000-0003-3832-6236
Journal Service	SCIENCE/NATURE/PNAS families; Global Change Biology, Forest Policy and Economics, Ecological Science, Biomass and Bioenergy, Energy Policy, Applied Energy, Environmental Research Letters, Forests, Sustainability, Frontiers, etc.

Major Scientific Interests

- Linking Integrated Biophysical and Biodiversity Modeling with SDG values
- Sustainable Biomass Feedstock for Ecosystems Services e.g. Bioenergy
- Boreal and Tropical Forest and Landscape Restoration (FLR)
- Integrated Nature-based and Nature-Climature Solutions
- Land-based Negative Emissions Technologies (NETs/CDR)
- Sustainability Safeguards for Land Use Modeling and Biodiversity
- Certified Forest Products and their Markets
- Forest-related Policies for Environment, Climate Change and Energy
- Forest Governance, Sustainable Forest Management and Innovation
- Public Opinion Research and Socio-Economics of the Forestry Sector
- Avoiding Deforestation and REDD+
- Sustainable (Rural) Development and Natural Resources Management
- Forest Fire Behavior/Fire Management/Fire Fighting

Steering boards, delegations, memberships, assessment activities (selected)

- Austrian Panel on Climate Change (APCC) – Coordinating Lead Author, Special Report on Land, Chapter 5 – Mitigation Potentials of Land Use, since 2019
- President of the International Boreal Forest Research Association (IBFRA), since 2018
- Scientific Chair and Chair of the Organization Board, Cool Forest/IBFRA18 Conference, 17-20 September 2018, Laxenburg, Austria
- Member of the Steering Committee of the International Boreal Forest Research Association (IBFRA) since 2013
- IBFRA Delegate to the UNECE/FAO Team of Specialists on Boreal Forests, <http://www.unece.org/>
- Member of the United Nations Office for Sustainable Development (UNOSD) Expert Group on Achieving the SDGs with Water-Food-Ecosystem Resilience in the Mid-Latitude, Seoul, South Korea.
- Scientific Committee Member of the Asian Resilience Center (ARC) since 2018
- Member elect of IIASA's Internal Research Committee (IRC) 2016-2018
- Member, Group of Specialists on Biomass and BECCS, Commission for Interdisciplinary Ecological Studies (KIOES). Austrian Academy of Sciences, AAS, since 2018
- Board member of the Sustainable Forest Biomass Network (SFBN), International Union of Forest Research Organizations (IUFRO), since 2016
- Board member of IEA Bioenergy Task 41 Special Project on Bio-CCUS
- Special member of IEA Bioenergy Task 45, Climate and Sustainability Effects of Bioenergy within the broader Bioeconomy, <http://task45.ieabioenergy.com/>, since 2018
- IPBES nominee, Deliverable 4c, Expert Group to develop a guide on and a catalogue of Policy support tools and methodologies
- Core Member of the Steering Board of MaGNET (Managing Global Negative Emissions Technologies) – a GCP activity by the GCP Office Tsukuba, NIES, Japan (<http://www.cger.nies.go.jp/gcp/magnet.html>)
- Member of Eco-Leader Education Committee of Korea University BK21+ ELEC.
- Member of the Editorial Board of the Global Carbon Atlas, a new NON-PROFIT initiative promoted by the Global Carbon Project (GCP) and supported by the BNP Paribas Foundation, in France.
- Austrian Delegate to the UNECE/FAO Team of Specialists on Boreal Forests, <http://timber.unece.org/> Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management
- Austrian Delegate to the UNECE/FAO Team of Specialists on Forest Communication/Communicators Network (FCN), <http://timber.unece.org/> Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management
- Austrian Delegate to the UNECE/FAO Team of Specialists on Forest Products, Markets and Marketing (FPM), <http://timber.unece.org/> Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management
- Austrian Delegate to the UNECE/FAO Team of Specialists on Forest Sector Outlook, <http://timber.unece.org/> Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management
- Austrian Delegate to the UNECE/FAO Team of Specialists on Wood Energy, <http://timber.unece.org/> Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management

Journal Editorials (selected)

- Special Issue Editor/Leading Guest Editor of the Environmental Research Letters (ERL) Special Focus Issue on Tropical Restoration 2020-2022. https://iopscience.iop.org/journal/1748-9326/page/Tropical_Landscape_Restoration
- Member of the Editorial Board of the Journal of Carbon Balance and Management (CBM), <https://cbmjournals.biomedcentral.com/about/editorial-board>
- Member of the Editorial Board/Associate Editor of the Journal Frontiers in Climate – Negative Emission Technologies <https://www.frontiersin.org/journals/climate/sections/negative-emission-technologies#>
- Special Issue Editor "Cool Forests at risk? The Critical Role of Boreal and Mountain Ecosystems for People, Bioeconomy, and Climate", *Forests Journal* (MDPI), https://www.mdpi.com/journal/forests/special_issues/cool_forest
- Special Issue Editor "Our Future Forests and Their Products—How to Get out of the Woods—Selected Papers from the IUFRO 125th Anniversary Congress", *Forests Journal* (MDPI), https://www.mdpi.com/journal/forests/special_issues/IUFRO_2017_future_forests

Professional Career

2021	IIASA Principal Research Scholar (R4)
2021 –	Leader, Research Group on Agriculture, Forestry, and Ecosystem Service (AFE), IIASA Biodiversity and Natural Resources (BNR) Program
2020 –	Visiting Professor at Korea University (KU), Division of Environmental Science and Biotechnology, College of Life Sciences and Biotechnology, Seoul, South Korea
2017 – 2020	Head, Center for Landscape Resilience & Management (CLR), IIASA ESM Program
2016 – 2018	Member elect of IIASA's Internal Research Committee (IRC), IIASA
2014 – 2020	Deputy Director, Ecosystems Services and Management Program (ESM), IIASA
2013 – 2017	Leader, Research Group on Policy-Science Interface (PSI)
2011 – 2013	Deputy Leader, Ecosystems Services and Management Program (ESM), IIASA
2009 – 2011	(Acting) Deputy Leader, Forestry Program (FOR), IIASA
2006 – 2017	Guest Researcher with the Center for Global Environmental Research (CGER), National Institute for Environmental Studies (NIES), Tsukuba, Japan
2006 –	FOR/ESM/BNR YSSP and Post-Doctoral Programs Representative
2004 –	(Senior) Research Scholar, Forestry Program (FOR), Ecosystem Services and Management Program (ESM), Biodiversity and Natural Resources Program (BNR), IIASA
2004 –	University Lecturer at various national and international universities including BOKU University, Vienna, Austria; KTH Stockholm, Sweden, Mälardalen University, Västerås, Sweden; Korea University, Seoul, South Korea; Hokkaido University, Sapporo, Japan; Bandung Institute of Technology, Bandung, Indonesia.
2005 - 2006	Consulting - Expert for Higher Education and Master Program Design http://foper.unu.edu/ , http://foper.dvopivar.com/contacts.htm

- 2001 – Consulting - Expert for Certified Forest Products Markets
- 2001 Participation in the IIASA YSSP Program, affiliated with the Forestry Project
- 1996 – Expert/Consultant/Research Assistant on different forestry related topics
- 2002 – 2004 International BOKU Study Programmes Coordinator and Developer of Master Programs including MSc Mountain Forestry, and MSc Natural Resources Management and Environmental Engineering (Double Degree BOKU-University of Christchurch, NZ)

Supervision & Capacity Building (YSSP, PhD, Post-Doc, MSc – Interns)

- 2018 – Member of **PhD thesis and thesis defense committees** for:
 - 1) Dr. Moonil Kim, Korea University Seoul, South Korea (2018-2019)
 - 2) Johannes Pirker, MSc, University of Leuven, Belgium (2018 – 2020)
 - 3) Yuyoung Choi, MSc, Korea University Seoul, South Korea (2020-2021)
- 2017 – Supervision of 10 **Post-Docs** (including funding from IIASA, Austria; Kempe, Sweden; Collosio, Mexico; NERC, UK; CAPES, Brazil)
- 2008 – Establishing official IIASA – BOKU University Vienna collaboration on hosting 2-3 **Interns** (MSc-level) annually, in the framework of the European Forestry Master Program.

Supervision of 13 Master Students as Interns between 1-3 Month (Summer Internships)
- 2004 – Supervision of 37 – **IIASA Young Scientists Summer Program (YSSP)** participants (PhD-student level)

Selected Research Projects/Coordination/PI/Funding Acquisition (2011-2021)

- 2017 – 2022 **RESTORE+** | Assessing Landscape Restoration in Indonesia and Brazil
www.restoreplus.org, funded by the German BMUB/International Climate Initiative IKI
Scientific Coordinator, Principal Investigator
Total: € 7,200,000
- 2011 – 2016 **Future Forests Program** (Phase II, 2013-2016)
<http://www.slu.se/en/collaborative-centres-and-projects/future-forests/>

IIASA-Coordinator
IIASA: € 450,000
- 2012 – 2015 **recharge.green** | An EC/Alpine Space-funded Project on “Balancing the Alpine Energy and Nature”; <http://www.recharge-green.eu>

IIASA-Coordinator, Principal Investigator and WP (5) Leader
IIASA: € 400,000
- 2014 – 2018 **IIASA’s Tropical Flagship Initiative (TFI)** | Bridging Capacity Gaps—Addressing Deforestation from a Landscape Perspective. An IIASA-founded and funded

initiative focusing on the tropical basins of Latin America, Africa and South-East Asia.
http://www.iiasa.ac.at/web/home/research/Tropical_Flagship_Initiative1.html

Coordinator, Principal Investigator
IIASA: € 300,000

2019 – 2022 **ALPTREES**, An EC/Alpine Space – funded Project on “Sustainable use and management of non- native trees in the alpine region”
<https://www.alpine-space.eu/projects/alptrees/en/home>

IIASA-Coordinator, Principal Investigator and WP (2) Leader
IIASA: € 240,000

2018 **18th IBFRA Conference 17-20 September 2018 @ IIASA, Laxenburg, Austria** “Cool Forests at Risk? The critical role of boreal and mountain ecosystems for people, bioeconomy, and climate.” www.ibfra18.org

Host, Organizer, and Scientific Chair,
IIASA: € 200,000

2020 – 2022 **Biokraft/For4Clim, Climate Protection Impact through Nature Conservation and Production Forests**. Identification of biofuel potentials from forests, multi-purpose forestry, afforestation, and short rotation coppice. Public tender by the German Ministry of Transport/German Biomass research Center (DBFZ)

Research Coordinator, Principal Investigator
IIASA: € 160,000

2020 – 2021 **Assessing Direct Air Capture (DAC) Fuel Potentials (ADEPT)**, RFP project funded by Climate Works Foundation, California, USA

Research Coordinator, Principal Investigator
IIASA: USD 150,000

2019 – 2021 **APCC Special Report on Land use, Land Management, and Climate Change; Chapter 5 “Land Use and Climate Mitigation”**; commissioned by the Austrian Panel on Climate Change (APCC) under the Austrian Climate Change Center (ACCC),
<https://sr21.ccca.ac.at/>

IIASA-Coordinator, Coordinating Lead Author, Chapter 5
IIASA: € 50,000

2019 - 2020 **IIASA Scenario Assessment – Forests under Climate Change**
MONDI Tender

Research Coordinator, Principal Investigator
IIASA: € 25,000

Total funding acquisition EUR 10+ million over the past decade

TOP JOURNAL Peer-Reviewed Publications

TOP JOURNAL Peer-Reviewed Publications:

- Schepaschenko D., et al. 2021. Russian Forest sequesters substantially more carbon than previously reported. *NATURE Scientific Reports*. Accepted/In press.
- Danylo, O., Pirker, J., Lemoine, G., Ceccherini, G., See, L., McCallum, I., Hadi., **Kraxner, F.**, et al. (2021). A map of the extent and year of detection of oil palm plantations in Indonesia, Malaysia and Thailand. *NATURE Scientific Data*. 8, art. 96. 10.1038/s41597-021-00867-1.
- Steidinger B S, Crowther T W, Liang J, Van Nuland M E, Werner G D A, Reich P B, Nabuurs G, de-Miguel S, et al. (2019). Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. *NATURE* 569 (7756): 404-408. DOI:10.1038/s41586-019-1128-0.
- Lesiv M, Schepaschenko D, Moltchanova E, Bun R, Dürauer M, Prishchepov AV, Schierhorn F, Estel S, Kuemmerle T, Alcántara C, Kussul N, Shchepashchenko M, Kutovaya O, Martynenko O, Karminov V, Shvidenko A, Havlik P, **Kraxner F**, See L, Fritz S (2018). Spatial distribution of arable and abandoned land across former Soviet Union countries. *NATURE Scientific Data*. DOI:10.1038/sdata.2018.56.
- Schepaschenko D, Fritz S, See L, Laso Bayas JC, Lesiv M, **Kraxner F**, & Obersteiner M (2017). The extent of forest in dryland biomes. *SCIENCE* 358 (6362): eaao0166. DOI:10.1126/Science.aao0166.
- Obersteiner M, Walsh B, Frank S, Havlik P, Cantele M, Liu J, Palazzo A, Herrero M, Kraxner F, et al. (2016). Assessing the land resource-food price nexus of the Sustainable Development Goals. *SCIENCE Advances* 2 (9): e1501499. DOI:10.1126/sciadv.1501499.
- Smith, P., Davis, S.J., Creutzig, F., Fuss, S., Rogelj, J., McCollum, D., Krey, V., Grubler, A., Jonas, M., **Kraxner, F.**, Nakicenovic, N., Obersteiner, M. and Rogner, M. (2016) Biophysical and economic limits to negative CO2 emissions. *NATURE Climate Change*, 6 (1). pp. 42-50.
- Fuss S, Canadell J G, Peters G P, Tavoni M, Andrew R M, Ciais P, Jackson R B, Jones C D, **Kraxner F**, Nakicenovic N, Le Quere C, Raupach M R, Sharifi A, Smith P, Yamagata Y, (2014). Betting on negative emissions. *NATURE Climate Change*, 4(10):850-853 (October 2014)
- Havlik P, Valin H, Herrero M, Obersteiner M, Schmid E, Rufino MC, Mosnier A, Thornton P, Boettcher, H, Conant RT, Frank S, Fritz S, Fuss S, **Kraxner, F**, Notenbaert, A. (2014). Climate change mitigation through livestock system transitions. *PNAS/Proceedings of the National Academy of Sciences* www.pnas.org/cgi/doi/10.1073/pnas.1308044111

Reviewed Publications in SCI Indexed Journals (2021-2003)

2021

- Matsala, M., Bilous, A., Myroniuk, V., Holiaka, D., Shchepashchenko, D., See, L., & **Kraxner, F.** (2021). The Return of Nature to the Chernobyl Exclusion Zone: Increases in Forest Cover of 1.5 Times since the 1986 Disaster. *Forests* 12 (8), e1024. 10.3390/f12081024.
- Schepaschenko D., et al. 2021. Russian Forest sequesters substantially more carbon than previously reported. *NATURE Scientific Reports*. Accepted/In press.

- Mohd Idris, M.N., Hashim, H., Leduc, S., Yowargana, P., **Kraxner, F.**, & Woon, K.S. (2021). Deploying Bioenergy for Decarbonizing Malaysian Energy Sectors and Alleviating Renewable Energy Poverty. *Energy*, e120967. 10.1016/j.energy.2021.120967. (In Press)
- Cowie A., Berndes G., ..., **Kraxner F.**, ...et al. (2021). Applying a science-based systems perspective to dispel misconceptions about climate effects of forest bioenergy. *Global Change Biology. Bioenergy*. <https://doi.org/10.1111/gcbb.12844>.
- Danylo, O., Pirker, J., Lemoine, G., Ceccherini, G., See, L., McCallum, I., Hadi., **Kraxner, F.**, et al. (2021). A map of the extent and year of detection of oil palm plantations in Indonesia, Malaysia and Thailand. *NATURE Scientific Data*. 8, art. 96. 10.1038/s41597-021-00867-1.
- Choi, Y., Lim, C.-H., Chung, H.I., Kim, Y., Cho, H.J., Hwang, J., **Kraxner, F.**, Biging, G.S., et al. (2021). Forest management can mitigate negative impacts of climate and land-use change on plant biodiversity: Insights from the Republic of Korea. *Journal of Environmental Management* 288, e112400. 10.1016/j.jenvman.2021.112400.
- Mohd Idris, M.N., Leduc, S., Yowargana, P., Hashim, H., & **Kraxner, F.** (2021). Spatio-temporal assessment of the impact of intensive palm oil-based bioenergy deployment on cross-sectoral energy decarbonization. *Applied Energy* 285, E116460. 10.1016/j.apenergy.2021.116460.
- Kim, M., **Kraxner, F.**, Forsell, N., Song, C., & Lee, W.-K. (2021). Enhancing the provisioning of ecosystem services in South Korea under climate change: The benefits and pitfalls of current forest management strategies. *Regional Environmental Change* 21 (1), e6. 10.1007/s10113-020-01728-0.

2020

- Mendoza Ponce, A. , Corona-Núñez, R.O., **Kraxner, F.**, & Estrada, F. (2020). Spatial prioritization for biodiversity conservation in a megadiverse country. *Anthropocene* 32, e100267. 10.1016/j.ancene.2020.100267.
- Franklin O, Krasovskiy A, **Kraxner F**, Platov A, Schepaschenko D, Leduc S, Mattsson B. 2000. Moose or spruce: A systems analysis model for managing conflicts between moose and forestry in Sweden. *bioRxiv* 2020.08.11.241372; doi: <https://doi.org/10.1101/2020.08.11.241372>
- Numazawa C., Krasovskiy A., **Kraxner F.**, and Pietsch S. A. 2020. Logging residues for charcoal production through forest management in the Brazilian Amazon: Economic gains and forest regrowth effects. *Environmental Research Letters*. DOI:10.1088/1748-9326/abb495. (In Press)
- Harahap F., Leduc S., Mesfun S., Khatiwada D., **Kraxner F.**, and Silveira S. 2020. Meeting the bioenergy targets from palm oil based biorefineries: An optimal configuration in Indonesia. *Applied Energy*, Volume 278, ISSN 0306-2619, <https://doi.org/10.1016/j.apenergy.2020.115749>.
- Balkovič J , Madaras M, Skalský R , Folberth C , Smatanová M, Schmid E, van der Velde M, **Kraxner F**, Obersteiner M (2020). Verifiable soil organic carbon modelling to facilitate regional reporting of cropland carbon change: A test case in the Czech Republic. *Journal of Environmental Management* 274: e111206. DOI:10.1016/j.jenvman.2020.111206.
- Zilli M, Scarabello M, Soterroni A, Valin H , Mosnier A, Leclere D, Havlik P, **Kraxner F**, Lopes M A, Ramos F M (2020). The impact of climate change on Brazil's agriculture. *Science of the Total Environment* 740: e139384. DOI:10.1016/j.scitotenv.2020.139384.
- Meng Y, Liu J, Leduc S, Mesfun S, **Kraxner F**, Mao G, Qi W and Wang Z (2020) Hydropower production benefits more from 1.5°C than 2°C climate scenario. *Water Resources Research*. In print. DOI:10.1029/2019WR025519

Lapin K, Bindewald A, **Kraxner F**, Marinšek A, La Porta N, Hazarika R, Chakraborty D, Oettel J, Berger F, Detry P, Kolesaric G, Baric D, Abluton S, Ulrici G, Georges I, Schweinzer KM, Schüler S (2020) A transnational cooperation for sustainable use and management of non-native trees in urban, peri-urban and forest ecosystems in the Alpine region (ALPTREES). *Research Ideas and Outcomes* 6: e53038. <https://doi.org/10.3897/rio.6.e53038>

Kim, M., Ham, B.-Y., **Kraxner, F.**, Shvidenko, A., Schepaschenko, D., Krasovskii, A., Park, T. & Lee, W.-K. (2020). Species- and elevation-dependent productivity changes in East Asian temperate forests. *Environmental Research Letters* 15 (3): e034012. DOI:10.1088/1748-9326/ab71a2.

Zhang D, Bui M, Fajardy M, Patrizio P, **Kraxner F**, & Mac Dowell N (2020). Unlocking the potential of BECCS with indigenous sources of biomass at a national scale. *Sustainable Energy & Fuels* 4 (1): 226-253. DOI:10.1039/C9SE00609E.

2019

Schepaschenko D, Chave J, Phillips OL, Lewis SL, Davies SJ, Réjou-Méchain M, Sist P, Scipal K, ... **Kraxner F**, ... et al. (2019). The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. *Scientific Data* 6 (1): e198. DOI:10.1038/s41597-019-0196-1.

Smith P, Adams J, Beerling DJ, Beringer T, Calvin KV, Fuss S, Griscom B, Hagemann N, ... **Kraxner F**, ... et al. (2019). Land-Management Options for Greenhouse Gas Removal and Their Impacts on Ecosystem Services and the Sustainable Development Goals. *Annual Review of Environment and Resources* 44 (1): 255-286. DOI:10.1146/annurev-environ-101718-033129.

Zhang D, Bui M, Fajardy M, Patrizio P, **Kraxner F**, & Mac Dowell N (2019). Unlocking the potential of BECCS with indigenous sources of biomass at a national scale. *Sustainable Energy & Fuels* DOI:10.1039/C9SE00609E. (In Press)

Soterroni A, Ramos FM, Mosnier A, Fargione J, Andrade PR, Baumgarten L, Pirker J, ... **Kraxner F**, ... et al. (2019). Expanding the Soy Moratorium to Brazil's Cerrado. *Science Advances* 5 (7): eaav7336. DOI:10.1126/sciadv.aav7336.

Kim M, **Kraxner F**, Son Y, Jeon SW, Shvidenko A, Schepaschenko D, Ham B-Y, Lim C-H, et al. (2019). Quantifying Impacts of National-Scale Afforestation on Carbon Budgets in South Korea from 1961 to 2014. *Forests* 10 (7): e579. DOI:10.3390/f10070579.

Steidinger B S, Crowther T W, Liang J, Van Nuland M E, Werner G D A, Reich P B, Nabuurs G, de-Miguel S, ... **Kraxner F**, ... et al. (2019). Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. *Nature* 569 (7756): 404-408. DOI:10.1038/s41586-019-1128-0. Steidinger B S, Crowther T W, Liang J, Van Nuland M E, Werner G D A, Reich P B, Nabuurs G, de-Miguel S, et al. (2019). Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. *Nature* 569 (7756): 404-408. DOI:10.1038/s41586-019-1128-0.

Lakyda P, Shvidenko A, Bilous A, Myroniuk V, Matsala M, Zibtsev S, Schepaschenko D, Holiaka D, Vasylyshyn R, Lakyda I, Diachuk P, and **Kraxner F** (2019). Impact of Disturbances on the Carbon Cycle of Forest Ecosystems in Ukrainian Polissya. *Forests* 10 (4): e337. DOI:10.3390/f10040337.

Mandová H, Patrizio P, Leduc S, Kjærstad J, Wang C, Wetterlund E, **Kraxner F**, & Gale W (2019). Achieving carbon-neutral iron and steelmaking in Europe through the deployment of bioenergy with carbon capture and storage. *Journal of Cleaner Production* 218: 118-129. DOI:10.1016/j.jclepro.2019.01.247.

Chen J, Gong Y, Wang S, Guan B, Balkovic J, & **Kraxner F** (2019). To burn or retain crop residues on croplands? An integrated analysis of crop residue management in China. *Science of the Total Environment* 662: 141-150. DOI:10.1016/j.scitotenv.2019.01.150.

- Truong AH, Patrizio P, Leduc S, **Kraxner F**, & Ha-Duong M (2019). Reducing emissions of the fast growing Vietnamese coal sector: the chances offered by biomass co-firing. *Journal of Cleaner Production* 215: 1301-1311. DOI:10.1016/j.jclepro.2019.01.065.
- Xylia M, Leduc S, Laurent A-B, Patrizio P, van der Meer Y, **Kraxner F**, & Silveira S (2019). Impact of bus electrification on carbon emissions: the case of Stockholm. *Journal of Cleaner Production* 209: 74-87. DOI:10.1016/j.jclepro.2018.10.085.
- Harahap F, Leduc S, Mesfun S, Khatiwada D, **Kraxner F**, & Silveira S (2019). Opportunities to Optimize the Palm Oil Supply Chain in Sumatra, Indonesia. *Energies* 12: e420. DOI:10.3390/en12030420.

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Câmara G, Ramos F, Soterroni A, Cartaxo R, Andrade P, Buurman M, Affonso A, Espíndola G, **Kraxner F**, et al. (2016). Using Models to inform Policies that meet multiple Objectives. Assessing the Contribution of Brazil's Forest Code to Biodiversity Conservation. INPE, IPEA, IIASA, UNEP-WCMC

Mant R, Garcia-Rangel S, Tadoum M, Nchoutpouen C, Tonga P, Makoudjou A, Bokelo Bile D, Ndinga RG, **Kraxner F**, et al. (2016). Using models to inform policies to meet multiple objectives. Sustainable development, climate change mitigation and biodiversity conservation in Central Africa. UNEP-WCMC, IIASA, COMIFAC

Bruckman VJ, Haruthaithanasan M, **Kraxner F**, Miller R, Darabant A, Choumnit G, Thongmanivong S, Ko Ko Gyi M, et al. (2016). ACMECS Bioenergy 2015. Three Years of Effort Towards a Regional Bioenergy Network. **Commission for Interdisciplinary Ecological Studies (KIOES)**. Austrian Academy of Sciences AAS.

Selected Keynotes/Invited Lectures and Paper Presentations (2011 – 2019)

2019

- Invited chair of Session “Mainstreaming Low Carbon Development Economy into Policy Planning”. Indonesia Pavilion. United Nations (UNFCCC) International Climate Conference (COP 25), 10-13 December 2019, Madrid, Spain.

- Invited lecture: Kraxner, 2019: Bioenergy and negative emissions technologies - synergies and tradeoffs. IEA Bioenergy Annual Meeting – Roles of Bioenergy Technologies in Energy System Pathways towards a WB2/SDG World, 25-28 November 2019, Berlin, Germany.
- Invited Keynote: Kraxner et al., 2019: Climate Change and forward-looking scenarios in Central Europe. Mondi Think Tank Meeting - Climate change and sustainable supply of softwood - A future outlook for the 21st century. The Case of Central Europe, 25 November 2019, Vienna, Austria.
- Chair IIASA session of the workshop; lead discussions on MLR/Nexus. WU-KU-IIASA Workshop on Geospatial Assessments of the Water-Food-Energy Nexus, 16-18 November 2019, Vienna Austria.
- Invited keynote: Kraxner et al., 2019: Land-based Negative Emissions - The Challenge of Afforestation - Emphasis on the Northern Hemisphere and Mid-Latitude Region. ARC Conference 2019 - Multi-scale Resilience Practices, 11-12 November, Seoul, Korea.
- Invited lecture: Kraxner et al., 2019: The importance of boreal forest research - addressed by the IBFRA Insight Process. Forêt2019 - joint Session of the ECE Committee on Forests and the Forest Industry and the FAO European Forestry Commission, 4-7 November 2019, Geneva, Switzerland.
- Session Chair and Organizer: Kraxner et al., 2019: RESTORE+ Advances in Global Restoration, RESTORE+, IUFRO World Congress 30 September – 5 October 2019, Curitiba, Brazil.
- Invited lecture: Kraxner et al., 2019: Negative Emissions – the Challenge of increasing the Carbon Sink through Afforestation, Reforestation and Restoration on the Northern Hemisphere – Case Study Eurasia. All-Russia Science Conference with International Participation, devoted to the 75 year anniversary of the V.N. Sukachev Institute of Forests, Siberian Branch of the Russian Academy of Sciences - Forest Ecosystems of the Boreal Zone: Biodiversity, Bioeconomy, Ecological Risks, (Co-Host the Conference and Chair of special IIASA-IBFRA sessions), 26-31 August 2019, Krasnoyarsk, Russia.
- Invited lecture: Kraxner et al., 2019: Bioenergy and Restoration - RESTORE+ Approach in Africa and South East Asia. 27th European Biomass Conference & Exhibition, Side Event: 2nd Dialogue on contribution of a sustainable wood energy production approach to Forest Landscape Restoration (FLR) in Sub-Saharan Africa (SSA): Focus on Africa - EU collaboration, 28 May 2019, Lisbon, Portugal.
- Invited lecture: Kraxner et al., 2019: Land based NET options. First Global Net Meeting, 22-24 May, Edinburgh, United Kingdom.
- Invited lecture: Kraxner 2019: The IBFRA Insight Process and IIASA's contribution, UNECE/FAO Forest Communicators Network – Annual Meeting, 20-22 May, Stockholm, Sweden.
- Kraxner et al., 2019: Participatory and evidence-based land use policy making - Insights from the RESTORE+ approach. Global Land Programme - 4th Open Science Meeting 2019 (GLP-OSM), 24-26 April 2019, Bern, Switzerland.
- Invited keynote: Kraxner et al., 2019: The importance of boreal forest research - addressed by the IBFRA Insight Process. Economic Commission for Europe Food and Agriculture Organization Committee on Forests and the Forest Industry European Forestry Commission - Joint ECE/FAO Working Party on Forest Statistics, Economics and Management, Forty-first session, 27-29 March 2019, Geneva, Switzerland.
- Invited keynote: Kraxner 2019: IIASA, IBFRA and Cool Forests. IEA Bioenergy Joint kickoff meeting of Tasks 40, 43, 44 and 45, 27 February - 01 March 2019, Stockholm, Sweden.
- Invited lecture: Kraxner 2019: IBFRA - from the Cool Forest Conference to the IBFRA Insight Process. Swedish Forest Day 2019 - Skogens Dag 2019, 23 January 2019, Stockholm, Sweden.

2018

- Invited lecture: Kraxner et al., 2018: Tropical Restoration - Cutting Edge Methodologies and R+ Status-Quo. Indonesia Pavilion Side Event: Innovations on Citizen Participation to Support Forest, Landscape and Peatland Restoration. Sub-event. United Nations (UNFCCC) International Climate Conference (COP 24), 3-14 December 2018, Katowice, Poland.
- Keynote: Kraxner et al., 2018: Sustainable Biomass Supply in the Mid-Latitude Region. Asian Resilience Center Conference 2018 - Resilience and New Leadership in the World, 27-28 November, Seoul, Korea.
- Invited lectures: 1) Kraxner et al., 2018: Cool Forests at Risk. 2) Schepaschenko and Kraxner et al., 2018: Afforestation of abandoned agricultural land as a climate mitigation and adaptation option. IBFRA science-policy workshop in conjunction with the June 2018 Boreal Ministerial Summit 24-26 June 2018, Haparanda, Sweden.
- Invited lecture: Kraxner et al., (2018): Locating Sustainable BECCS. CCS Forum 2018, 4-8 June 2018, Cetraro, Calabria, Italy.
- Invited talk: Schepaschenko and Kraxner et al., 2018: Afforestation and Restoration for Negative Emissions. Environmental Defense Fund (EDF) Forestry Carbon Workshop, 30-31 May 2018, New York, USA.
- Invited lecture: Kraxner et al., 2018: Sustainability Constrains on Biomass Resources Significantly Limit BECCS Negative Emissions Potential. International Conference on CO2 Emissions, 22-24 May 2018, Gothenburg, Sweden.
- Invited panel participation: Bio-CCS – capture and storage of biogenic CO2. Long-term storage safety and needed retention time. Resources/conflicts and synergies/sustainability. Public perception. Financing. Moderators: Stuart Haszeldine and Filip Johnsson, Panelists: Sally Benson, Jasmin Kemper, Florian Kraxner, Anders Lyngfelt, Mike Monea, Kristin Myskja, Jennifer Wilcox. May 22, 2018, Gothenburg, Sweden.
- Key note: Kraxner et al., 2018: A Combined Restoration and Certification Strategy for Sustainable Bioenergy. Biomass and Bioenergy Conference – BBC BRAZIL 2018, 10-13 April, Sorocaba, Sao Paulo, Brazil.

2017

- Invited lecture: Kraxner et al. 2017: Negative Emissions in South East Asia: Renewable energy optimization with BECCS for Indonesia. CO2 Summit III Conference, 22-26 May 2017, Cetraro, Italy.
- Invited lecture: Kraxner et al. 2017: R+: Mapping certified forests for SFM -a global online tool. UNECE/FAO Forest Communicators' Network - Annual Meeting, 29 May-2 June 2017, Malaga, Spain.
- Panel Participation: Kraxner et al. 2017: RESTORE+. IIASA-IUCN Side Event on R+ at UNFCCC SBSTA Bonn (Global Climate Negotiations): Contribution of Forest landscape Restoration to NDCs. 17 May 2017, Bonn, Germany.
- Invited Lecture: Florian Kraxner et al. 2017: Lessons learned from tropical, mid-latitude (and boreal?) zones. Network for Enhanced Ecosystem Services (NEES) - 1st Workshop. 26-28 June 2017, Berlin, Germany.
- Invited lecture: Kraxner et al. 2017: Sustainable forest management in the Mid-Latitude Region – a visualization case study based on forest certification mapping. International Conference on Forests Of Eastern Europe In A Changing World, 28-29 September 2017, National University of Life and Environmental Sciences of Ukraine (NULESU), Ukraine.

- Invited lecture: Kraxner et al. 2017: Renewable Energy Systems and the Environment. International Clean Energy Talent (iCET) Program, 16-17 October 2017, School of Business, Society and Engineering, Mälardalens University, Sweden.
- Invited lecture: Kraxner et al. 2017: Sustainability and the Mid-Latitude. Sustainability and the Mid-Latitude. Korea University Sice Event at Korea Pavilion 13 November, Bonn Zone, COP23. Bonn, Germany.
- Invited lecture: Kraxner et al. 2017: Sustainable biomass and tropical restoration. ESP9 Ecosystem Services Partnership - 9th Conference. 11-15 December 2017, Shenzhen, China.
Invited lecture: Kraxner et al. 2017: Landscape Restoration in Indonesia and Brazil. Global Landscapes Forum, 19-20 December 2017, Bonn, Germany.

2016

- Kraxner et al. (2016): From global biomass to the tropics. Invited lecture held at the “Bali Clean Energy Forum” (BCEF), 10-12 February 2016, Bali, Indonesia.
- Kraxner et al. (2016): IIASA and KU's EU-project approach for an international mid-latitude R&D network. Invited key note held at the 3rd OJERI Symposium. Invited keynote held at the “Systems Analysis Approach to Climate Change Adaptation and Mitigation for Mid-Latitude Ecotone in connection with EU-Horizon 2020 Strategies” symposium hosted by OJEONG Eco-Resilience Institute, 16-17 March 2016, Seoul, Korea.
- Kraxner et al. (2016): Sustainable forest-based bioenergy in Eurasia. Invited lecture held at the “International Energy Workshop 2016” (IEW), 01-03 June, Cork, Ireland.
- Kraxner et al. (2016): Background - Theme for International Day of Forest 2017. Invited key note held at the “UN-FAO-ECE Forest Communicators Network Meeting 2017” (FCN), 29 August - 01 September 2016, Portland, Oregon, USA.
- Kraxner et al. (2016): Modeling Sustainable Bioenergy Potentials for Eurasia. Invited lecture held at the Workshop 'Forest of Northern Eurasia and Global Change', 10 August 2016, Krasnoyarsk, Russia.
- Kraxner et al. (2016): The energy - land nexus in Indonesia - how to balance renewable energy and ecosystems services protection. Invited lecture at the “Global Landscape Program - Open Science Meeting 2016” (GLP-OSM), 24- 27 October 2016, Beijing, China.
- Kraxner et al. (2016): Negative Emissions and the Mid-latitude Ecotone. Invited lecture provided at the “4th OJERI Symposium on Mid-Latitude Ecotone”, 24-25 November 2016, Seoul, Republic of Korea.
- Kraxner et al. (2016): IIASA, the Food-Energy-Water Nexus and the Mid-Lat Ecotone. Key note presented at the “UN-OSD Expert Group Meeting on Achieving the Sustainable Development Goals with Water-Food-Ecosystem Resilience in the Mid-Latitude Region” (MLR), 28 – 29 November 2016 Seoul, Republic of Korea.

2015

- Florian Kraxner (2015): Future trend of bioenergy and its standardization in Asia and Europe. Invited keynote held at 3rd ACMECS Bioenergy Workshop (Ayeyawady-chao Phraya-Mekong Economic Cooperation Strategy between the following countries: Bioenergy Workshop - Cambodia, Laos, Myanmar, Thailand, and Vietnam). Future Development of ACMECS Bioenergy: Regional Plan and Standardization. 8-11 December, Ubon Ratchathani, Thailand.
- Florian Kraxner (2015): From Classic BECCS to Modern Negative Emissions. European Carbon Negative Conference, BELLONA, 9 November 2015, Brussels, Belgium.

- Florian Kraxner (2015): The Global View – Aspects of an Integrated Approach. Presentation held at the IIASA side event: No North without South - No South without North. IIASA Side Event, 10 September 2015, 12:45-14:15, HALL 4D, XIV World Forest Congress, Forests and People: Investing in a Sustainable Future, 7-11 September 2015, Durban South Africa
- Florian Kraxner, Sylvain Leduc, Sabine Fuss, Ping Yowargana, Dmitry Schepaschenko, Georg Kindermann, Stephan Pietsch, Jens Hetland (2015): Driving clean energy access and green economy with the help of forest-based bioenergy with CCS (BECCS): A case study on Indonesia. WFC2015 Sub-Theme 4, Dialogue 4. Innovation in energy, financial markets and investments in forest and land, XIV World Forest Congress, Forests and People: Investing in a Sustainable Future, 7-11 September 2015, Durban South Africa.
- Florian Kraxner, Karin Beland Lindahl, Erik Westholm (2015): The Future Use of Nordic Forests - A Global Perspective. Invited book-launch lecture at a Mini Session, Future Forests Booth, 9 September 2015, XIV World Forest Congress, Forests and People: Investing in a Sustainable Future, 7-11 September 2015, Durban South Africa.
- Florian Kraxner (2015): How will Megatrends Influence Forests? Invited lecture provided at the Future Forest Side Event, 8. September 2015, XIV World Forest Congress, Forests and People: Investing in a Sustainable Future, 7-11 September 2015, Durban South Africa.
- Florian Kraxner (2015): From Global Biomass Issues to the Japanese situation. Invited lecture held on 2nd September 2015 at the Global Carbon Project (GCP) – Tsukuba Office, MaGNET - Workshop on Negative Emissions: Bridging Societal and Mitigation Needs. 2 - 5 September 2015, Sapporo, Hokkaido, Japan.
- Florian Kraxner (2015): From Global to Local Planning of BECCS. Invited lecture held on 3rd September 2015 at the Global Carbon Project (GCP) – Tsukuba Office, MaGNET - Workshop on Negative Emissions: Bridging Societal and Mitigation Needs. 2 - 5 September 2015, Sapporo, Hokkaido, Japan.
- Florian Kraxner (2015): Reconciliation of top -down versus bottom-up modeling in the renewable energy sector. Invited keynote held at the 2nd Asian Energy Modeling Workshop on Climate Change and Sustainability, Energy Studies Institute, National University of Singapore, 23-24 July, Singapore
- Florian Kraxner, Sylvain Leduc, Ping Yowargana, Dmitry Schchepaschchenko, Sabine Fuss, Petr Havlik , Aline Mosnier (2015): Negative emissions - interactions with other mitigation options: a bottom-up methodology for Indonesia. Poster presentation in the frame work of the 9 July 2015 Session “Negative emissions for climate change stabilization & the role of CO2 geological storage”, hosted by MCC, CO2-GeoNet, IIASA, and GCP. Our Common Future under Climate Change – Conference, 7-10 July 2015, Paris, France.
- Florian Kraxner (2015): Modeling Bioenergy with Carbon Capture and Storage - A Scenario Assessment for Indonesia. Presentation held at the 8th Trondheim Conference on CO2 Capture, Transport and Storage (TCCS-8). 16-18 June, Trondheim, Norway.
- Florian Kraxner (2015): What’s the scenario? Towards renewable and sustainable energy production in the Alps: spatially explicit modelling of production and protection. Keynote held at the recharge.green side event at the reenweek2015, 5 June 2015, Representation of the European Region Tyrol-South Tyrol-Trentino, Brussels, Belgium.
- Kraxner et al. (2015): Optimizing renewable energy systems in the Alpine space – balancing production and protection. Invited talk provided at the International Final Conference of the recharge.green Project, 20-21 May 2015, Sonthofen, Germany.
- Florian Kraxner (2015): Forest management certification - application of a new tool for certification mapping to the boreal forest. Paper presented at the 17th International Boreal Forest Research Association (IBFRA) Conference 2015. 25-29 May 2015, Rovaniemi, Finland.

- Florian Kraxner, Karin Beland Lindahl, Erik Westholm (2015): The Future Use of Nordic Forests - A Global Perspective. Invited book-launch at the 17th International Boreal Forest Research Association (IBFRA) Conference 2015. 25-29 May 2015, Rovaniemi, Finland.
- Florian Kraxner (2015): The International Institute for Applied Systems Analysis (IIASA) and the Bioeconomy. Invited lecture at the FAO-UNECE Forest Communicators Network & the IUFRO Communications and Public Relations Working Party "Communicating the vital role of forests in the bioeconomy", 21-23 May, Barcelona, Spain.
- Florian Kraxner (2015): IIASA's possible role in 'Mid-Latitude R/D Network'. Invited lecture at 1st OJERI Symposium entitled "Resilience Thinking in a Changing World", hosted by Ojeong Eco-Resilience Institute. 7-8 May 2015, Seoul, Korea.
- Florian Kraxner, Ping Yowargana, Aline Mosnier (2015): Land use Modeling under IIASA's Tropical Futures Initiative (TFI). Tropical Futures Initiative stakeholder workshops in Jambi and East Kalimantan, 7-14 April 2015, Jambi, Indonesia.
- Florian Kraxner (2015): Policy Support Modeling - National consistent global land use modeling at IIASA-ESM. Invited lecture at the COST Workshop - forestry modeling for integrated policy. 9-11 March. Cascais, Portugal.
- Florian Kraxner, Kentaro Aoki, Georg Kindermann, Y. Yamagata (2015): Balancing renewable energies and ecosystem services at different scales in the European Alps – possible lessons to learned for Japan. Invited lecture at the Global Carbon Project (GCP) – Tsukuba Office Workshop "Bridging between Urban and Regional Ecosystems while considering Negative Emissions" at the Toyota High-level Symposium on Sustainable Cities, 15-16 January 2015, Toyota City, Aichi, Japan.

2014

- Kraxner et al. (2014): IIASA's ESM and its multi-scale ecosystem services research. International Seminar for Celebrating MOU between IIASA and KU. Building bridges through Policy and Science of Climate Change Adaptation and ecosystem Services. 27. Oct. 2014, Korea University, Seoul, Korea.
- Kraxner F., Fuss S., Leduc S., Kindermann G., Schepaschenko D., Shvidenko A., Yamagata Y., Yowargana P., Wicaksono A., Aoki K., Best D., Heidug W. et al. (2014): Managing impacts of scale and sustainability in a BECCS context. Session D: Bio-energy With Carbon Capture and Storage (BECCS). The 4th International Conference on Biomass Energy Technologies—8th World Bioenergy Symposium (ICBT-WBS 2014), October, 17-19 2014, Changsha, China.
- Florian Kraxner, Dmitry Schepaschenko, Sabine Fuss, Kentaro Aoki, Sylvain Leduc, Georg Kindermann, Anatoly Shvidenko (2014): Global Forest Management Certification – Future Development Potentials. Presentation held under the topic "Forests and Forest Production for a Greener Future", in the session "Contributions of Business and Marketing to a Greener Future". The 2014 International Union of Forestry Research Organizations (IUFRO) World Congress, 5-11 October 2014, Salt Lake City, Utah, USA.
- Florian Kraxner, Sabine Fuss, Kentaro Aoki, Sylvain Leduc, Georg Kindermann (2014): Principles Of BECCS - Regional And National Case Studies – Assessing The Potentials. Presentation held under the topic "Forest Biomass and Energy", in the session "Global and regional deployment of Biomass & CCS (BECCS): Reconciling top-down and bottom-up approaches and REDD+BECCS Nexus", organized by IIASA. The 2014 International Union of Forestry Research Organizations (IUFRO) World Congress, 5-11 October 2014, Salt Lake City, Utah, USA.
- Florian Kraxner, Michael Obersteiner (2014): Forests and the 3 Rio Conventions - Making the connections. Presentation held on 7 October 2014 at Session A-27B (26(B): International to

Local Forest Governance: Taking Stock of Theories, Methodologies and Findings. The 2014 International Union of Forestry Research Organizations (IUFRO) World Congress, 5-11 October 2014, Salt Lake City, Utah, USA.

- Kraxner F., Schepaschenko D., Fuss S., Lunnan A., Kindermann G., Aoki K., Shvidenko A. (2014): Where is our Certified Forest? Application of a New Tool for Certification Mapping to the Boreal Forest. All-Russian Scientific Conference on “Forest Biogeocenoses of the Boreal Zone: Geography, Structure, Functions and Dynamics”, 16-19 September 2014, Krasnoyarsk, Russia.
- Kraxner et al. (2014): Future agriculture and land use – an overview of global ecological, social and economic drivers and trends. Challenges and opportunities for Sweden? Future Agriculture: Interdisciplinary research in practice - exploring future agriculture and land use. 15 September 2014, Linköping, Sweden.
- Kraxner et al. (2014): IIASA’s Tropical Flagship Initiative. The ninth ASEAN Science and Technology Week (ASTW 2014). 18-27 August 2014, Bogor, West Java, Indonesia.
- Kraxner F., Fuss S., Leduc S., Kindermann G., Kwang I.T., Aoki K., Yamagata Y., et al. (2014): Negative Emissions – BECCS – Case Studies from Europe, Indonesia, Japan and South Korea. EU-Korea Conference on Science and Technology EKC2014, 22-25 July 2014, Vienna, Austria.
- Kraxner F., Fuss S., Leduc S., Kindermann G., Yamagata Y. (2014): From Sustainable Bioenergy to Negative Emissions – BECCS. International Workshop on Sustainable Energy. The Applied Energy Innovation Institute and the University of Nottingham China. 5 June 2014, International Conference Center, Ningbo, China.
- Florian Kraxner, Sylvain Leduc, Sabine Fuss (2014): Bioenergy Production and Ecosystem Services Conservation in the Alps. 33rd International Energy Workshop (IEW), 4-6 June 2014, Beijing, China
- Florian Kraxner, Kentaro Aoki, Sylvain Leduc, Yoshiki Yamagata (2014): Energy resilient solutions for Japan – a BECCS case study. International Conference on Applied Energy (ICAE2014). National Taiwan University of Science and Technology (NTUST), 30 May - 2 June 2014, Taipei City, Taiwan
- Florian Kraxner (2014): The IIASA Integrated Modeling Cluster – Global and Regional Applications. 13. GCP SSC Meeting. 27-29 May 2014, Seoul, Korea.
Kraxner F. et al. (2014): The International Institute for Applied Systems Analysis (IIASA) in the Context of Integrated Modeling of Ecosystems and Land Use Change. Future Forests Project, Researcher Meeting. 13-15 January 2014, Uppsala, Sweden.

2013

- Invited key note lecture: Kraxner et al. (2013): Globally consistent land use analysis at national and regional level - The IIASA Model Cluster and Case Study Examples. FORSYS 2013, Decision support systems for Sustainable Forest Management, 24-26 April, Umeå, Sweden.
- Invited key note lecture: Kraxner et al. (2013): CO2 capture and storage from bioenergy plants – possibilities for efficient CO2 reduction. Reconciling top-down and bottom-up: Regional and national BECCS case studies. Nordic-Baltic Bioenergy Conference, Energy for the Future. 21-22 May, Oslo, Norway.
- Invited lecture: Kraxner et al. (2013): The REDD+BECCS connection, assessing global potentials and sustainability. IEA-IIASA-USP workshop on Bioenergy and CCS (BECCS): Options for Brazil. 12-14 June 2013, Sao Paulo, Brazil.

- Invited key not lecture: Kraxner et al. (2013): Global and regional deployment of Biomass & CCS - BECCS. Applied Energy Expert Forum. 11-13 July, Guizhou and Chongqing, China.
- Invited key note lecture: Kraxner et al. (2013): A geographically explicit analysis of BECCS potential in Indonesia. The 2nd Workshop on Bioenergy, CCS and BECCS “Enhancing Carbon Emission Reduction through Bioenergy and Carbon Capture & Storage”. 24 August 2013, Jakarta, Indonesia.
- Invited lecture: Kraxner et al. (2013): Achieving zero net deforestation and concurring goals in bioenergy and biodiversity conservation. MCC Forestry Workshop. Reconceiving Forest Governance: The Example of the German Forest. 21 October 2013, Berlin, Germany.
- Invited lecture: Kraxner et al. (2013): Multiple objectives and interaction with other (land-based) emission reduction options. GCP-IIASA-MCC-NIES workshop on “Sustainable Negative Emissions: A Climate Risk Management Option?”. 6-7 December 2013, Tokyo, Japan.

2012

- Providing 2 invited presentations at the Joint FAO/UNECE Working Party on Forest Statistics, Economics and Management, Thirty-fourth session 26-30 March (Forestry and Timber Section, Palais des Nations, Geneva, Switzerland), representing the UNECE Forest Communicators Network Team of Specialists (FCN-ToS). 1) Results of the self-evaluation of UNECE/FA FCN-ToS; 2) FCN activities in 2011 and plans for 2012
- Providing 2 invited presentations at the official Kick-Off Meeting for the China/ESM Collaboration Project on “Grey Water Footprint and Water Scarcity Assessment”, School of Nature Conservation, Beijing Forestry University (China). 1) Overview on IIASA and its collaboration with China/NSFC; 2) IIASA’s GLOBIOM Model in the water context.
- Invited presentation at the UNECE/FAO - "Stream Lining Forest Based Reporting Workshop" on REDD Baselines - country level information based on the ESM Integrated Modeling Cluster/REDD-PAC; August 2012, Jacksonville, Florida, USA.
- Co-Organization and presentation of an invited paper at the IEA-IIASA Workshop on Biomass and Carbon Capture and Storage (BECCS) in Indonesia, hosted by the Indonesian government (MEMR, UKP4), the IIASA NMO of Indonesia, IEA and IIASA; Presentation on: BECCS in Indonesia; 20-21 September 2012, Jakarta, Indonesia.
- Providing an invited presentation at the REDD-PAC side event organized and hosted by WCMC (REDD-PAC partner) at COP 11 UNCBD on “REDD-PAC and Biodiversity”; 9-12 October, Hyderabad International Convention Center HICC, India.
- Organization of and delivering a presentation at the REDD-PAC Side Event on REDD+BECCS, DOHA, COP 18, titled “REDD Experiences from the ICI project REDD-PAC”; The REDD-PAC side event has been co-organized by IIASA, IEA, and the Indonesian REDD+ Task Force. December 2012, Doha, Qatar.

2011

- BECCS in Europe and Asia, UNECE/FAO Forest Communicators Team of Specialists Annual Meeting 2011, Budapest, Hungary
- BECCS in South Korea – An Analysis of Negative Emissions Potential for Bioenergy as a Mitigation Tool, World Renewable Energy Congress (WREC) 2011, Linköping, Sweden
- Innovation Spread in Austria’s Bioenergy Sector – A Qualitative Spatiotemporal Analysis, Third International Conference on Applied Energy (ICAE2011), Perugia, Italy

- Bioenergy Innovation in Central Europe - A Spatiotemporal Policy Analysis, Pre-IUFRO/UNECE conference for forest products marketing, Oregon State University, Oregon Wood innovation Center, Corvallis, Oregon, USA
- Responsible Global Integrated Forest Management Strategies, International Conference on Response of Forests and Adaptation Management to Climate Change (Session Chair), Yichun, China
- Forest-based Bioenergy in the Eurasian Context, 15th International Boreal Forest Research Association –Conference (IBFRA), Krasnoyarsk, Russia
- Future Forests - understanding processes shaping future forest use. An overview of ecological, social and economic drivers and trends, invited seminar speaker for Future Forests Program by SLU: Forests in a changing World - integrating values, interests and trade-offs, Jokkmock, Sweden
- Global shifts of land use: Natural resources and the future, invited seminar speaker for the Future Agriculture Program by SLU: livestock, crops and land use, Uppsala, Sweden
- Forest-based feed stocks - a global outlook, invited seminar speaker at Norwegian University of Life Sciences, Oslo, Norway
- BECCS in Japan - An Analysis of Negative Emissions Potential for Bioenergy as a Mitigation Tool, Second international workshop on biomass & carbon capture and storage, Cardiff, Wales, UK
- Future Scenarios for Global Forest Development, Invited speaker at the International FORMATH Forum 2011, Forest Resource Management and Mathematical Modeling, GRIPS, Tokyo, Japan

For further details/updates see: <http://www.iiasa.ac.at/staff/kraxner>