



Registration deadline 1 December: [<https://forms.office.com/r/jPZegaHLeL>]

EPICamp II

Sustainability, material use, and climate justice

A global sustainability transition from a socio-metabolic perspective
integrating land-use, material use, energy transition, climate justice, and ecosystem impact.

2/3 December 2021

Agenda

Thursday, December 2, 2021

Dec 2, time	Session title	Speakers and Chairs	Description
09:00-09:45	Opening, welcome, & program overview	Rector Univ. Prof. DI Dr. Hubert Hasenauer University of Natural Resources and Life Sciences, BOKU Vienna Vice Rector for Research Prof. Dr. Daniela Kleinschmit Albert-Ludwig-University, Freiburg	Welcome to the second EPICamp on "Sustainability, material use, and climate justice" <ul style="list-style-type: none">• Keynotes by Rectors• Welcome Address by the Academic Board• Programme Overview• Technical Instructions
09:45-10:45	Getting to know each other	Nina Eisenmenger, Christian Dorninger BOKU Vienna	This interactive session is designed for participants to get to know each other.
10:45-11:00	Coffee break		
11:00-12:00	Input and discussion: "Living well within planetary limits: is it possible? what would it take?"	Julia K. Steinberger University of Lausanne	(tba)
12:00-13:00	Lunch break		



Dec 2, time	Session title	Speakers and Chairs	Description
13:00-13:45	ECR presentations, Group1: “Sustainable agriculture and forestry”	Gaël Bohnert University of Upper Alsace (UHA) Laura Maria Comella Albert-Ludwig-University, Freiburg Kristin Limbach University of Strasbourg (UNISTRA) Eleni Yiacoumi Aristotle University of Thessaloniki Gazi V. Anastasia Aristotle University of Thessaloniki	Early-career researchers are sharing and discussing their research work, interests, and ideas.
13:45-15:15 (2 parallel sessions)	Open Discussion: "Dynamic material flow analysis (MFA)"	Stefan Pauliuk Albert-Ludwig-University, Freiburg Helmut Haberl BOKU Vienna	We describe future production, use, and recycling of materials with dynamic material flow analysis (MFA). Our models have high material and product resolution, factor in the changing energy system and GHG intensity, and can be connected to numerous assessments and indicators of environmental impacts. Still, on the use side of things the description is rather simple. Some studies model total material stocks as proxy of service provision and well-being, others already look at the physical services provided, such as kilometres travelled or useful building area. But we need to better understand: How do different patterns of demand (basic needs, habitual consumption, status consumption, ...) translate into product and material demand and what is the role of products and materials for these patterns to change in the future? How to translate different urban forms into future material demand? What is the best level of resolution to link physical scenarios for material, product, and service provision to scenarios of future economic development?
	ECRs discuss and connect	Early-career researchers (ECRs)	Open space to continue the conversations particularly for ECRs.
15:15-15:45	ECR presentations, Group2: “Material, energy, and land use”	Maria Stefanidou Aristotle University of Thessaloniki Jan Streeck Albert-Ludwig-University, Freiburg Christian Dorninger BOKU Vienna	Early-career researchers are sharing and discussing their research work, interests, and ideas.
15:45-16:00	Coffee break		

Dec 2, time	Session title	Speakers and Chairs	Description
16:00-17:00	Input and discussion “Equity in Urban Metabolism & Biophysical Economics”	Christopher Kennedy University of Victoria	The presentation has two parts. First, approaches to considering equitable access to energy in urban metabolism studies are reviewed, with particular emphasis on the transition to low carbon electric cities. Second, a biophysical model of an economy is expanded to include wealth distribution subject to biophysical constraints.
17:00-17:15	Wrap-up	N. Eisenmenger, C. Dorninger BOKU Vienna	In the last session we will wrap-up the first day and decide on the open sessions of the second day.

Friday, December 3, 2021

Dec 3, time	Session title	Speakers and Chairs	Description
09:00-10:30	Input and discussion: "Social metabolism, land use, and carbon inequality"	Helmut Haberl BOKU Vienna Klaus Hubacek University of Groningen Anke Schaffartzik Central European University, Vienna	Klaus Hubacek: Mind the gap: bridging the carbon divide “End poverty in all its forms everywhere” is the first of the United Nation’s Sustainable Development Goals (SDGs) adopted September 2015; setting targets of eradicating extreme poverty by 2030 for all people everywhere. In parallel another United Nations process took place that culminated in December 2015 where 195 countries adopted the new Paris Agreement under the United Nations Framework Convention on Climate Change aimed to keep warming to well below 2°C above pre-industrial levels in the long-term while recognizing developing countries right to eradicate extreme poverty and develop sustainably. These agreements provide a basis for putting the world economies on a sustainable pathway. However, both agreements do not prescribe how these ambitious goals may be achieved in a compatible manner, nor how the burden or responsibility of achieving them may be shared. In this presentation, I will explore the available carbon budget for the global community, how it is shared at the moment (or who is responsible for the mess we are in?) and how to tackle the current carbon inequality.
10:30-11:00	ECR presentations, Group3: “Environmental and climate justice”	Ahmed Alahwal Albert-Ludwig-University, Freiburg Claussmann, Lisa University of Strasbourg (UNISTRA) Rafał Szymanowski & Aleksandra Lis Adam Mickiewicz University (AMU) Dana Darwish Consultant for Climate Change and Sustainability Services at EY	Early-career researchers are sharing and discussing their research work, interests, and ideas.

Dec 3, time	Session title	Speakers and Chairs	Description
<p>11:00-12:30 (2 parallel sessions)</p>	<p>Open Discussion: "Land use, renewables, and legal framework"</p>	<p>Calum Brown, Seo Bumsuk, Ankita Saxena Karlsruhe Institute of Technology (KIT)</p> <p>Melis Aras, Lise Etienne University of Strasbourg (UNISTRA)</p> <p>Nina Eisenmenger, Christian Dorninger BOKU Vienna</p>	<p>We will discuss plans and prospects for research into land-based renewable energy generation in Europe. We will consider the feasibility of different energy generation options, their implications for other land use objectives, and the role they might play in a transition to social-ecological sustainability. This includes biophysical, social and political barriers to energy generation as well as feedbacks from consequent land use change. We will also explore the potential for ‘mixed-purpose’ landscapes that combine energy generation with provision of other goods and services. The session is intended to produce ideas for methods and collaborations to project the growth of renewable energy in the context of the whole land system.</p> <p>Within the context of climate change, limited fossil fuels, and increasing global energy demand, the deployment of renewable energy sources (RES) technologies is a key challenge for all European societies. From a legal point of view, several issues have emerged: How does the legal framework deal with the landscape concept in the context of the energy transition? To what extent is the material treatment of different interests (landscape, biodiversity, climate changes, patrimony, private property, etc.) carried out? Is landscape protected as the core subject (landscape as a driving force for action) or is it an instrument used to protect other interests?</p> <p>We will also focus on the implications of an energy transition for national/global resource and land use, distribution and justice. It will foreground how domestic resource and land use patterns are interrelated to different parts of the world through socioecological teleconnections to achieve the energy infrastructure required for the upcoming energy transition and the critical resources needed therein. Questions arise not only about how such a transition can be achieved, but also which justice implications are entailed to different societal groups and nations.</p>
	<p>Open Discussion: "Moving Beyond Essentialism: Rurality Unchained"</p>	<p>Eva Ruskamp Albert-Ludwig-University, Freiburg</p> <p>Jingjing April Guo Rachel Carson Center Munich</p>	<p>“Rurality” – the condition of being essentially rural – has remained a pervasive and substantial category in global debates about development. As a category, it is which seems to be forever bound, whether it be to the ‘urban’, to a nostalgic and the past, or a depravity and lacking presence from which it must be saved. “Rurality” also has been bound to localities, for that it seems to have always been defined by a certain geographic and environmental area in which it manifests itself as a specific and essential space. Never standing in its own rights, the rural has become an intermediate stage in the desired and seemingly inevitable process towards urbanization or to become void of human civilization altogether. The space it holds is only ever to be transformed – esp. if it seeks to take part in “futures”.</p> <p>Conceptualizing the rural as such, as predominantly done in current literature, forecloses what might have already been on offer by the ways of thinking and doing that exist in inhabit rural spaces, which, that are already or potentially creative in building viable ways of life. In our open session, we want to crack the concept wide open with our own situated knowledge and reimagine its possibilities. We invite discussants to share case studies of rurality and rural development from around the globe, discuss our discomfort and struggle with available frames for their analysis and identify potential avenues not to renew rurality but renew and change the way we conceptualize and perceive it. Unchain “rurality” will allow different perspectives on the global trends and challenges, such as migration, movement, and inter-generational justice which are negotiated within rural communities as much as elsewhere. We believe that in doing so, we open new possibilities to think about the larger questions of sustainability, resilience, and development that pave ways for a spatial and temporal ecojustice.</p>

Dec 3, time	Session title	Speakers and Chairs	Description
12:30-13:30	Lunch break		
13:30-14:30 (2 parallel sessions)	Open format Group1: Potential follow-up from discussion groups	NN	Early-career researchers decide how to use this parallel session.
	Open format Group2: Potential follow-up from discussion groups	NN	Early-career researchers decide how to use this parallel session.
14:30-14:45	Coffee break		
14:45-15:45	Panel Discussion: "Methods for inter- and transdisciplinary sustainability research"	<p>Henrik von Wehrden Leuphana University of Lueneburg</p> <p>David P.M. Lam Leuphana University of Lueneburg</p> <p>Willi Haas BOKU Vienna</p>	Discussion on quantitative and qualitative inter- and transdisciplinary research methods.
15:45-16:00	Wrap-up and outlook	N. Eisenmenger, C. Dorninger BOKU Vienna	