WEDNESDAY 19 JUNE, 11:00-12:30

Learning and experiencing ecological economics - new pedagogical aspects in higher education courses

11:00-12:30 Wednesday, 19th June, 2019
M2, Quantum, 2nd floor
Track SS1

SS1.1
Teaching 'Degrowth in Ecological Economics' with a Twist
Alexandra Köves¹, Gabriella Kiss¹

SS1.2
What a difference a course makes: teaching and learning ecological economics in an engineering school
Paula Antunes¹, Rui Santos¹, Nuno Videira¹

SS1.3
Learning ecological economics via a multi-actor knowledge co-creation process
Eszter Kelemen¹, Janka Horváth¹, Eszter Godányi¹, Gellért Himmer², Bence Lukács², Fanny Nagy², Ágota Rákos², Flóra Széles², Ingrid Tóth²

SS1.4
Experiential learning on sustainability issues – embedded in a business school
Gabriella Kiss¹, Tamás Veress¹

SS1.5
Learning and experiencing ecological economics through virtue and character development
Amparo Merino¹, Estela Díaz¹
Advances in understanding the physical structures of economies: Materials, energy, and the services they provide
11:00-12:30 Wednesday, 19th June, 2019
XVI, Quantum, 1st floor
Track SS2

**SS2.1**
The AF Filières project: application of PSUT frameworks for regional analyses of agriculture and forestry supply chains and footprints in France
Jean-Yves Courtonne¹, Julien Alapetite¹, Michela Bevione¹, Vincent Wawrzyniak², Sylvain Caurla³

**SS2.2**
Meeting 2030 primary energy and economic growth goals: Mission impossible? Application of physical supply-use table methods to energy conversion chain analysis for Ghana and the UK
Matthew Heun¹, Paul Brockway²

**SS2.3**
The energy effects of Brexit: Application of hybrid supply-use table methods to understand one of the largest economic shocks of our time
Matteo Vincenzo Rocco¹, Guevara Zeus², Matthew Kuperus Heun³

**SS2.4**
Creating multi-regional PSUT accounts for the analysis of global biomass, metal, and energy flows
Stefan Giljum¹, Martin Bruckner¹, Hanspeter Wieland¹

**SS2.5**
EcoDyco: An macroeconomic software for a finite world
Christophe Goupil¹, Eric Herbert¹, Yves d'Angelo², Simon Chazel¹, Gaël Giraud³
Islands as Places of Innovation and Deep Learning
11:00-12:30 Wednesday, 19th June, 2019
Seminar room 251, Natura, 2nd floor
Track SS3

Note: Also Dimitrios Zikos will present in this session (OT7.5)

SS3.1
Deep Learning by Doing on Islands: Limits and Opportunities
Ourania Papasozomenou

SS3.2
The small-scale fisheries of Finnish Archipelago, sustainabilities and deep learning
Kirsi Sonck-Rautio
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.1
Nature, health and well-being
11:00-12:30 Wednesday, 19th June, 2019
XX, Agora, 1st floor
Track OT1

Chair: M. Azahara Mesa-Jurado

OT1.1
Bird species richness increases life satisfaction across Europe
Joel Methorst2,1, Katrin Rehdanz3, Thomas Müller4,1, Bernd Hansjürgens5, Aletta Bonn2,5, Katrin Böhning-Gaese4,1

OT1.3
Air Pollution, Health and Income: Empirical Evidence from Developing Economies
Heli Arminen

OT1.4
How to assess the healing power of nature? – Impact evaluation process in a Hungarian school garden
Janka Horváth1, Eszter Kelemen1, Bálint Balázs1, Flóra Széles2, Bence Lukács2, Ágota Rákos2, Gellért Himmer2

OT1.5
Local perceptions of impacts on ecosystem services of monoculture crops expansion across Latin America
M. Azahara Mesa-Jurado1, Erin C. Pischke2, Diana Cordoba3, Theresa Selfa4, Jesse Abrams5

OT1.6
Knowledge, Artefacts and History- A conceptual framework of joint production and historical legacy of ecosystem services through the lenses of the capability approach
Julia Grosinger1, Matthew D. Potts2, Nicolas Buclet3, Sandra Lavorel4
DEVELOPING SUSTAINABLE FUTURES, 3.1 Agro-ecology, forestry and fisheries

11:00-12:30 Wednesday, 19th June, 2019
XVII, Quantum, 2nd floor
Track OT2

Chair: Christian Kimmich

OT2.1
The role of soil biodiversity for sustainable agriculture - development paths towards 2050
Tania Runge, Stefan Schrader, Martin Banse

OT2.2
Assessing uncertainty propagation in Integrated Modeling Frameworks for the Bio-Economy – Concepts, Methods and Applications
Mathias Kirchner, Hermine Mitter, Uwe A. Schneider, Clemens Liehr, Katharina Falkner, Mark Sommer, Erwin Schmid

OT2.3
Participatory modelling affects behaviour: Empirical evidence from a field experiment on the water–energy–food nexus in Cambodia
Christian Kimmich, Louise Gallagher, Birgit Kopainsky, Mark Dubois, Chansopheaktra Sovann, Chanmenta Buth, Christian Bréthaut

OT2.4
Evolution of cod quota market networks in Iceland
Maartje Oostdijk, Maria J. Santos, Sveinn Agnarsson, Pamela J. Woods

OT2.5
How to Change Ways of Acting in Agriculture? A Case Study of a Trans-actional Process and the Mediating Artifact ‘Quality’
Catherine Milou, Jean-Pierre Del Corso, Charilaos Képhaliacos

OT2.6
Measuring Irish agricultural efficiency with undesirable outputs: A Malmquist-Luenberger Index Approach using Farm Level Data
Alexander Kaiser, Axel Schaffer, Michele McCormack
DEVELOPING SUSTAINABLE FUTURES, 3.5 Planning for urban resilience

11:00-12:30 Wednesday, 19th June, 2019
XVIII, Quantum, 3rd floor
Track OT3

Chair: Tiia-Lotta Pekkanen

OT3.1
Externalities and Human Well-Being: An Environmental and Social Dilemma to be solved
Olga Kudryavtseva¹, Olga Malikova¹

OT3.2
Out of sight – out of regulation? - Theoretical foundations for ensuring sustainable underground governance in the UK
Kevin Grecksch

OT3.3
Co-creating transdisciplinary global change research in Finland: an empirical study of a process of co-creation
Kaisa Matschoss¹,², Maria Pietilä¹, Mikko Rask¹

OT3.4
Nationalism and responsible consumption: a critical discourse analysis of producer campaigns
Tiia-Lotta Pekkanen¹, Visa Penttilä²
FORMULATING TRANSFORMATIVE POLICIES, 4.1 Innovative economic instruments

11:00-12:30 Wednesday, 19th June, 2019
Seminar room 215, Natura, 2nd floor
Track OT4

Chair: Juha Kotilainen

OT4.1
The Status of Climate Policy Integration in EU Energy Policy
Claudia Kettner1, Daniela Kletzan-Slamanig1

OT4.2
Climate Justice in Cap-and-Trade Design - Insights from Theory and Worldwide Experiences
Sven Rudolph1, Achim Lerch2, Takeshi Kawakatsu3, Elena Aydos4

OT4.3
Economic insights in ecological compensations: Market analysis with an empirical application to the Finnish economy
Johanna Kangas1, Markku Ollikainen1

OT4.4
Motivations and practices of facilitating and degrading actors in the designing of an ecological compensation mechanism
Juha Kotilainen2,1, Liisa Varumo2, Eeva Primmer2
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.1 Ecological macroeconomic models A
11:00-12:30 Wednesday, 19th June, 2019
QU314, Quantum, 3rd floor
Track OT5

Chair: Eric Kemp-Benedict

OT5.1
SUPER DoNUT: Sustainability on the periphery – distilling numbers for tomorrow
Branko Ančić1, Mladen Domazet2, Andro Rilović2,3

OT5.2
Economy-wide rebounds: What they are and how to explain them
Steffen Lange1, Tilman Santarius2, Joelle Saey-Volckrick1

OT5.3
Pushing and pulling our way to a greener future
Eric Kemp-Benedict

OT5.4
To what extent does energy cause economic growth?
Alban Pellegris

OT5.5
National accounting issues and real economic transitions: A useful exergy decomposition analysis of advanced economies
Marco Vittorio Ecclesia2,3, Tiago Domingos4, Tiago Ribeiro3, João Santos3
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.1 Human needs and wellbeing

11:00-12:30 Wednesday, 19th June, 2019
XI, Natura, 2nd floor
Track OT6

Chair: Miklós Antal

OT6.1
Does it have to be a sacrifice? Different notions of the good life, pro-environmental behavior and their heterogeneous impact on well-being
Martin Binder1,2, Ann-Kathrin Blankenberg3, Jorge Guardiola4

OT6.2
Prioritising well-being on a finite planet: A research manifesto
Julia Steinberger1, Elke Pirgmaier1, William Lamb2, Helga Weisz3, Daniel Bailey4, Stephen Hall4, Lina Brand-Correa1, Doris Fuchs5, Sylvia Lorek6, Peter-Paul Pichler3, Timmons Roberts7, Marlyne Sahakian8

OT6.3
Showing off sugar? The effect of positional goods on agents’ welfare in the “sugarscape” model
Sylvie Geisendorf

OT6.4
Quality of life in sustainability transitions: the case of Hurdal Ecovillage (Norway)
Amsale Temesgen

OT6.5
Beyond consumption growth: Mapping the option space for alternative visions
Miklós Antal1, Lina Brand Correa1
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.2 Degrowth and post-growth economics
11:00-12:30 Wednesday, 19th June, 2019
M3, Quantum, 3rd floor
Track OT7

Chair: Diana Szakál

OT7.1
Structural change for a post-growth economy: Exploring the relationship between embodied energy and labour productivity
Lukas Hardt¹, John Barrett¹, Peter G. Taylor¹, Timothy J. Foxon²

OT7.2
The multiple natures of degrowth: implications for a social theoretical approach to a degrowth transformation.
Giuseppe Feola

OT7.3
Reconciling sustainable consumption with full employment: a two-sector stock flow consistent model of structural change.
Ben Gallant¹, Tim Jackson¹, Simon Mair¹

OT7.4
A conceptual exploration and critical inquiry into the theoretical foundation(s) of measures of economic welfare like the ISEW and GPI.
Jonas Van der Slycken¹, Brent Bleys¹

OT7.5
Robust Island Systems and Social Innovation in Cyclades.
Dimitrios Zikos

OT7.6
Food for degrowth in the Budapest Food City Lab initiatives
Diana Szakál¹, Bálint Balázs¹
ECOLOGICAL ECONOMICS AS A TRANSFORMATIVE SCIENCE. Ontology, pedagogy and methodological pluralism in ecological economics
11:00-12:30 Wednesday, 19th June, 2019
XIV, Natura, 3rd floor
Track OT8
Chair: Mariam Maki Sy

OT8.1
Critical Realism as 'Underlabouring' for a Feminist Decolonial Degrowth Approach
Corinna Dengler

OT8.2
Understanding Economies as Ecologically and Socially Emergent
Clive Spash

OT8.3
Valuation of Ecosystem Services and social choice: An original protocol combining deliberative and individual values
Mariam Maki Sy¹, Charles Figuières², Hélène Rey-Valette³, Rutger De Wit³
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.3 Money and finance
11:00-12:30 Wednesday, 19th June, 2019
XV, Natura, 4th floor
Track OT44

Note: moved from Friday!
Chair: Alberto Peralta

OT44.1
The valuation of environmental effects and travel time: a holistic perspective
Niek Mouter¹, Manuel Ojeda Cabral⁰, Thijs Dekker³, Sander van Cranenburgh¹

OT44.2
Participatory Value Evaluation: a novel approach for the economic evaluation of ecological impacts of public policies
Niek Mouter¹, Paul Koster², Thijs Dekker³

OT44.3
Money, interest rates and accumulation on a finite planet – Revisiting the ‘monetary growth imperative’ through institutionalist approaches
Romain Svartzman¹, Joseph Ament², David Barmes³

OT44.4
The financing of renewable energies: a bibliometric approach
Luc Elie¹, Caroline Granier¹, Caroline Granier², Sandra Rigot¹

OT44.5
BUSINESS MODEL ECO-INNOVATION IN PRACTICE: MODELLING THE ENTREPRENEUR’S DECISION ON WHICH PRACTICE TO USE TO CREATE SUSTAINABLE BUSINESSES
Alberto Peralta¹, Javier Carrillo-Hermosilla³, Fernando Crecente¹
WEDNESDAY 19 JUNE, 14:30-16:00

The environmental impacts of global mining
14:30-16:00 Wednesday, 19th June, 2019
M2, Quantum, 2nd floor
Track SS4

SS4.1
Creating global mining maps as a basis for fine-scale impact assessments
Stefan Giljum\textsuperscript{1}, Mirko Lieber\textsuperscript{1}, Sebastian Luckeneder\textsuperscript{1}, Stephan Lutter\textsuperscript{1}

SS4.2
Assessing water inputs of global mining activities
Stephan Lutter\textsuperscript{1}, Stephen Northey\textsuperscript{2}, Michael Tost\textsuperscript{3}

SS4.3
A water scarcity and water quality footprint on the example of two Lithium mines
Anna Schomberg\textsuperscript{1}, Stefan Bringezu\textsuperscript{1}
Networks of Action Situations: A transformative ontology for Ecological Economics?
14:30-16:00 Wednesday, 19th June, 2019
XVI, Quantum, 1st floor
Track SS5

SS5.1
Explaining emergent social-ecological phenomena through networks of social-ecological action situations – an analytical framework
Maja Schlüter\textsuperscript{1}, Jamila Haider\textsuperscript{1}, Emilie Lindkvist\textsuperscript{1}, Romina Martin\textsuperscript{1}, Kirill Orach\textsuperscript{1}, Nanda Wijermans\textsuperscript{1}, Carl Folke\textsuperscript{1}

SS5.2
Can network analyses of action situations help to scope leverage points for polycentric transformation? A review
Christian Kimmich

SS5.3
Distant Interactions, Power, and Environmental Justice in Protected Area Governance: a Telecoupled Action Situations Perspective
Sébastien Boillat\textsuperscript{1}, Jean-David Gerber\textsuperscript{2,1}, Christoph Oberlack\textsuperscript{3,1}, Julie Zaehringer\textsuperscript{3}, Chinwe Ifejika Speranza\textsuperscript{1}, Stephan Rist\textsuperscript{3,1}

SS5.4
Analyzing integrated resource governance in Germany - the food-energy-water nexus as an approach for integrated policy design
Carolin Märker\textsuperscript{1}, Sandra Venghaus\textsuperscript{2}
International contexts of energy use: how much and what for?
14:30-16:00 Wednesday, 19th June, 2019
Seminar room 251, Natura, 2nd floor
Track SS6

SS6.1
RESIDENTIAL ELECTRICITY CONSUMPTION AND TIME-USE QUANTIFIED LIFESTYLES IN URBANIZING CHINA
Pui Ting Wong¹,Yuan Xu²

SS6.2
Consumers’ preferences for Demand Side Management in Poland.
Bernadeta Gołębiowska¹,Anna Bartczak¹

SS6.3
Time Use and Energy Use in Austria 2010
Barbara Smetschka¹,Dominik Wiedenhofer¹,Claudine Egger¹

SS6.4
The context of energy use in Zambia - lessons learned from quantitative studies
Marta Baltruszewicz

SS6.5
Ugandan energy use at household level
Karla Cervantes Barron
Extending knowledge communities: Towards a more humble inquiry
14:30-16:00 Wednesday, 19th June, 2019
XX, Agora, 1st floor
Track SS7

SS7.1
Co-creation of knowledge on the Finnish Archipelago Sea food web using fuzzy cognitive mapping
Suvi Vikström

SS7.2
Co-production of transformative knowledge: how to integrate scientific and practical knowledge?
Kaisa Korhonen-Kurki, Maija Faehnle, Marko Keskinen, Heli Saarikoski, Saija Kuusela, Lina Koskinen, Kirsi Marja Lonkika, Jussi Airaksinen, Sanne Bor, Janina Käyhkö

SS7.3
Ecological Actions: a Network Approach
Tiziano DISTEFANO, Pietro Guarnieri

SS7.4
How Art Creation Supports Climate Adaptation and Sustainable Development - Lessons from the Artistic Response to the 2011 Triple Catastrophe in Japan
Tamara Schneider, Sven Rudolph
SS8.1
The IPBES Regional Assessment for Europe and Central Asia: Options for governance and decision-making
Irene Ring*, Camilla Sandström*

SS8.2
Opportunities and challenges of mainstreaming biodiversity and ecosystem services into forest policy
Roland Olschewski*, Primmer Eeva*, Ulan Kasymov*, Riccardo Simoncini*

SS8.3
Transforming agricultural institutions to enhance nature’s contributions to people and biodiversity conservation in Eastern Europe and Central Asia
Ulan Kasymov*, Riccardo Simoncini*, Irene Ring*, Camilla Sandström*
Advancing a quantitative perspective on sustainability issues related to bioeconomy transitions in the social-ecological system
14:30-16:00 Wednesday, 19th June, 2019
XVIII, Quantum, 3rd floor
Track SS9

SS9.1
Induced Land Use Change and emissions from major bioplastics
Neus Escobar, Salwa Haddad, Jan Börner, Wolfgang Britz

SS9.2
Environmental impacts in regional bioeconomy supply chains – MRIO analyses of the forest-related land use footprints
Janis Brizga

SS9.3
Global supply chains in the bioeconomy: food, feed, fuel and fibre
Martin Bruckner
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.4
Environmental values and valuation

14:30-16:00 Wednesday, 19th June, 2019
Seminar room 215, Natura, 2nd floor
Track OT9

Please note: this session will continue until 16:15! Presentation time 10 + 5 minutes.

Chair: Rita Lopes

OT9.1
Stakeholder values and knowledge, its potential to inform Bayesian Belief Networks and models of freshwater catchment management
Craig Bullock¹, Mary Kelly-Quinn¹, Michael Christie², Michael Bruen¹, Thibault Hallouin¹

OT9.2
Is there consistency between environmental attitudes and choice preferences? The case of peatlands conservation in Finland.
Ioanna Grammatikopoulou¹, Eija Pouta¹, Janne Artell¹

OT9.3
Estimation of the willingness to pay for the marketed and non-marketed benefits of pollinators and pollination services in the South West of France
Zafarani Uwingabire¹,², Nicola Gallai², Charilaos Kephaliacos², Jean Pierre Del Corso²

OT9.4
Do preferences change? The case of extensive awareness campaigns to control plastic waste
Kostas Bithas¹, Charalampos Mentis¹, Dionysis Latinopoulos²

OT9.5
Sociocultural valuation of ecosystem services of whales in Skjálfandi Bay, Iceland
Laura Malinauskaite¹, David Cook¹, Brynhildur Davíðsdóttir¹

OT9.6
A collaborative process to assess Ecosystem Services flows and support adaptive management in City – Nature Interfaces
Rita Lopes¹, Nuno Videira¹
DEVELOPING SUSTAINABLE FUTURES, 3.1 Agro-ecology, forestry and fisheries and 3.2 Information technologies and digitalization

14:30-16:00 Wednesday, 19th June, 2019
QU314, Quantum, 3rd floor
Track OT10

Chair: Andrea Wiktor Gabriel

OT10.1
Sequential exploitation, macro and micro-drivers of global fisheries expansion
Maartje Oostdijk¹, Laura Elsler², Junfu Zhao³, Elaine Bochniewicz⁴, Sanmitra Gokhale⁵, Stephanie Stefanski⁶, Edward Tekwa⁷, Andrew Frederick Johnson⁸, Jessica Gephart⁹, Chris Free¹⁰

OT10.2
Multi-criteria assessment of agricultural sustainability using the SMART Farm Tool: insights and challenges in applying a holistic sustainability framework for comparing wildly different production systems
Michael Curran¹, Christian Schader¹, Jan Landert¹, Gianna Lazzarini¹, Lukas Baumgart¹, Richard Petrasek², Rainer Weisshaidinger³, Anja Heidenreich³, Johan Blockeel³, Haris Papagiannakis³, Rolf Epple¹, Matthias Stolze¹

OT10.3
Fisheries sustainability and private ownership claims over EU fishing opportunities
Griffin Carpenter¹, Christiane Heisse¹

OT10.4
Responsive innovation system for digital energy services
Ralitsa Hiteva¹, Tim Foxon²

OT10.5
Making sense of biomass metabolism in agri-food systems - When autopoiesis and agency matter for action
Andrea Wiktor GABRIEL¹, Philippe Lescoat², Sophie Madelrieux¹
DEVELOPING SUSTAINABLE FUTURES, 3.5 Planning for urban resilience
14:30-16:00 Wednesday, 19th June, 2019
XI, Natura, 2nd floor
Track OT11
Chair: Erika Öhlund

OT11.1
Co-Creating a Resilient Future for Lienz - A Local Case Study in Socio-Economic Scenario Development and Visionary Thinking
Ina Meyer¹, Michiko Hama², Robert Jandl¹, Markus Leitner¹, Markus Keuschnig³, Ivonne Anders⁶, Oliver Fritz¹, Helene Berthold⁴, Brigitte Eder⁸

OT11.2
Assessing disaster resilience in urban and rural communities: Insights from science and practice
Finn Laurien¹, Adriana Keating¹, Reinhard Mechler¹

OT11.3
Ecologizing planning: Urban planning and nature in Bogotá
Germán A. Quimbayo Ruiz²,¹, Matti Salo³, Juha Hiedanpää³, Juha Kotilainen¹

OT11.4
Three cities, three countries, one challenge, planning to increase urban resilience in a transboundary context: the case of the Tri-border Region in the Parana basin
Paola Sakai²,³,¹, Marco Sakai³,⁴

OT11.5
What are the values of agricultural land? Urban expansion as a threat to long-term food security.
Erika Öhlund
FORMULATING TRANSFORMATIVE POLICIES, 4.1 Innovative economic instruments
14:30-16:00 Wednesday, 19th June, 2019
M3, Quantum, 3rd floor
Track OT12
Chair: Riko Wahyudi

OT12.1
A TAXONOMY OF ECONOMIC MECHANISMS FOR ENVIRONMENTAL STEWARDSHIP
Rubén Vezzoni

OT12.2
Designing a global intergovernmental biodiversity transfer scheme
Nils Droste, Josh Farley, Irene Ring, Peter H. May, Taylor H. Ricketts

OT12.3
Institutions for sustainability
Arild Vatn

OT12.4
Creating A Fiscal Incentive Mechanism for REDD+ through Village Fund in Aceh Province, Indonesia
Riko Wahyudi, Rezky Lasekti Wicaksono, Ayu Satya Damayanti
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.1 Ecological macroeconomic models

14:30-16:00 Wednesday, 19th June, 2019
XIV, Natura, 3rd floor
Track OT13

Chair: Christian Kerschner

OT13.1
Regulation towards sustainable, circular forest bioeconomy
Jaana Korhonen\textsuperscript{2,1}, Anni Tuppura\textsuperscript{2}, Eliisa Kylkilahti\textsuperscript{1}, Jenni Miettinen\textsuperscript{1}, Markku Ollikainen\textsuperscript{1}, Minna Autio\textsuperscript{1}, Katja Lähtinen\textsuperscript{1}, Sami Berghäll\textsuperscript{1}, Lassi Linnanen\textsuperscript{1}, Mirja Mikkilä\textsuperscript{4}, Anne Toppinen\textsuperscript{2,1}

OT13.2
Bioeconomy contributions to progress in sustainability – results from a counterfactual modelling exercise
Martin Distelkamp\textsuperscript{1}, Lara Ahmann\textsuperscript{1}, Markus Flaute\textsuperscript{1}, Christian Lutz\textsuperscript{1}

OT13.3
National accounts with an extended energy sector and estimation of useful exergy prices for Portugal 1960-2014
João Santos\textsuperscript{1}, Tiago Domingos\textsuperscript{1}, Tânia Sousa\textsuperscript{2}, André Serrenho\textsuperscript{1}

OT13.4
The Climate Effect of Digitalization in Production and Consumption in OECD Countries
Thomas Kopp\textsuperscript{1}, Steffen Lange\textsuperscript{2}
ECOLOGICAL ECONOMICS AS TRANSFORMATIVE SCIENCE, 7.3 Interactive and action research

14:30-16:00 Wednesday, 19th June, 2019
XV, Natura, 4th floor
Track OT14

Chair: Alexandra Köves

OT14.1
Exploring the roles of the researchers in the transformative sustainability research
Lummina Horlings¹, Marta Nieto Romero², Siri Pisters³, Katriina Soini³

OT14.2
Fostering the dialogue on complex socio-ecological problems through Forum Theatre
Paula Novo¹, Julia Martin-Ortega², Azahara Mesa-Jurado³, Mariana Pineda³

OT14.3
The social justice of disability – Lessons from a participatory action research with a school for deaf children
Judit Gébert¹, Zoltán Bajmócy¹, Barbara Mihók¹, Boglárka Méreiné Berki¹, Kata Komáromi², Juhász Judit¹, György Málovics¹

OT14.4
Co-creating pathways towards sustainability in organisations
Patrícia Tourais¹, Nuno Videira¹

OT14.5
The Cooperation of Art and Science in Post-normal Science: An Example
Alexandra Köves¹, Judit Gáspár¹, Réka Matolay¹
THURSDAY 20 JUNE, 11:00-12:30

Law, politics and governance: institutions, organizations and procedures for Ecological Economics

11:00-12:30 Thursday, 20th June, 2019
M2, Quantum, 2nd floor
Track SS11

SS11.1
The state and voluntary carbon markets in Germany’s land use sector
Claas Meyer1, Lasse Loft1, Alexandra Konzack1, Teresa Kraus1

SS11.2
Sustainability governance of ports: Insights from the Australian and New Zealand port industry
Peggy Schrobback

SS11.3
Designing participatory methods with values in mind
Ruth Shortall1,2, Niek Mouter1

SS11.4
Legal institutions, Ecological Economics and their (common) role for Sustainable Development
Volker Mauerhofer
**Tribute to Felix Rauschmayer's Interdiscipinarity for transdisciplinarity**
11:00-12:30 Thursday, 20th June, 2019
XVI, Quantum, 1st floor
Track SS12
*Lessman will be participating via Skype*

**SS12.1**
On the impact of engagement in sustainability initiatives on peoples' wellbeing
Ines Omann²∥, Mirijam Mock³, Christine Polzin⁴

**SS12.2**
On how individuals as collectives get caught in transitions.
Tom Bauler¹, Bonno Pel¹

**SS12.3**
On actors experimenting on and for sustainability transitions in real-world laboratories
Niko Schäpke

**SS12.5**
Collectives and the capability approach to sustainability
Ortrud Leßmann
Co-creation in Finnish textile recycling ecosystem

11:00-12:30 Thursday, 20th June, 2019
Seminar room 251, Natura, 2nd floor
Track SS13

One important innovation ecosystem in Finland at the moment is related to textile recycling and new circular economy business opportunities in textile field. This ecosystem is called Telaketju. Telaketju started building up an network of end-of-life textile gatherers, sorters, recyclers and reusers. In an ecosystem, actors from different backgrounds are working closely together and benefit from each others’ work. In addition to the research partners, Telaketju network includes over 50 public and private companies. Cooperation and co-creation are some of the most important aspects in well-functioning innovation and business ecosystems.

One key actor in well functioning ecosystem is trust. The aim of this session is to learn how trust has build up in Telaketju-ecosystem and how to strenghten the trust in the situation when the ecosystem is changing. One aim is to further develop trust in ecosystem, based on the sessions participants ideas and experience.

Session format, methods and moderation:
The session is moderated by Leader of Research Piia Nurmi from TUAS and facilitated by service designer Inka Mäkiö also from TUAS.

There will be Telaketju companies present as well as NGO and research partners.

The session will be interactive so that all participants can learn and share.

Main organizer
Piia Nurmi
piia.nurmi@turkuamk.fi

SS13.1
Co-creation in Finnish textile recycling ecosystem
Mirjam Ikonen¹, Taina Savolainen¹, Piia Nurmi², Sara Malve-Ahlooth²
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.5
Natural capital and ecosystem services A
11:00-12:30 Thursday, 20th June, 2019
XX, Agora, 1st floor
Track OT15
Chair: Meri Juntti

OT15.1
Thinking Green, Circular or Bio: eliciting researchers’ perspectives on a sustainable economy with Q method.
Dalia D’Amato2,1, Nils Droste3,4, Klara Winkler5, Anne Toppinnen2,1

OT15.2
Ecosystem services as commons
Tatiana Kluvánková2,1, Viera Bastakova2,1, Stanislava Brnkalakova2,1, Veronika Gežík2,1

OT15.3
Analysing the views of environmental professionals on commodification of ecosystem services: the case of Mexico
Julia Martin-Ortega1, Azahara Mesa-Jurado2, Mariana Pineda-Velazquez2, Paula Novo3

OT15.4
Assessing transitions to biomass-based renewable energy: The case of tropical wood charcoal commons
Hanneke van ‘t Veen1, Maarten B. Eppinga1, Maria J. Santos1

OT15.5
Urban environmental quality and wellbeing in the context of incomplete urbanization in Brazil: integrating directly experienced ecosystem services into planning
Meri Juntti1, Heloisa Costa2, Nilo Nascimento2
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.5
Natural capital and ecosystem services B

11:00-12:30 Thursday, 20th June, 2019
XVII, Quantum, 2nd floor
Track OT16

Chair: Thomas Elliot

OT16.1
Attached to or bound to a place? The impact of green space availability on residential duration: The environmental justice perspective
Edyta Laszkiewicz¹, Jakub Kronenberg¹, Szymon Marcinczak¹

OT16.2
Knowledge co-production for managing aquatic ecosystem services with social-ecological scenarios
Romina Martin¹, Zuzana Harmáčková¹

OT16.3
How is nature traded? Brokering biodiversity within offsetting to identify incentives for safeguarding ecological outcomes
Niak Sian Koh

OT16.4
Modelling changes in biodiversity potential at the urban level
Thomas Elliot²,¹, Javier Babí Almenar⁴,³, Paul Baustert⁵,¹, Benedetto Rugani¹, Vânia Proença⁶
OT17.1
ANALYSING THE BARRIERS AND DRIVERS TO CONCENTRATING SOLAR POWER IN THE EUROPEAN UNION. POLICY IMPLICATIONS.
PABLO DEL RIO1, CHRISTOPH KIEFER1

OT17.2
Ownership and infrastructure transformation: the electricity sector in Germany and Norway
Gregory Ferguson-Cradler

OT17.3
A critical appraisal of the global potentials and greenhouse gas implications of agricultural bioenergy
Gerald Kalt1, Andreas Mayer1, Michaela C. Theurl1, Christian Lauk1, Karl-Heinz Erb1, Katrin Kaltenegger2, Wilfried Winiwarter2, Helmut Haberl1

OT17.4
Valuing energy solutions in the residential housing markets: Market devices and the role of real estate agents.
Mikko Jalas1, Jenny Rinkinen2
DEVELOPING SUSTAINABLE FUTURES, 3.4 Social metabolism and industrial ecology

11:00-12:30 Thursday, 20th June, 2019
Seminar room 215, Natura, 2nd floor
Track OT18

*Chair: Jonathan Busch*

**OT18.1**
The energy metabolism of countries: studying the impacts of the 2008 crisis on energy efficiency and energy use.

Valeria Andreoni

**OT18.2**
Water footprints in urbanising Europe

Juudit Ottelin¹, Seppo Junnila¹

**OT18.3**
Building a Taxonomy of Eco-innovation Types in Firms - A Quantitative Perspective

Christoph Kiefer¹, Pablo Del Rio¹

**OT18.4**
Designing transformative policy mixes for circular economy

Henna Sundqvist-Andberg¹, Maria Åkerman², Sampsa Ruutu¹

**OT18.5**
Local Industrial Strategies for Sustainability Transformations

Jonathan Busch¹, Timothy Foxon², Peter Taylor², Julia Steinberger¹
FORMULATING TRANSFORMATIVE POLICIES, 4.1 Innovative economic instruments

11:00-12:30 Thursday, 20th June, 2019
QU314, Quantum, 3rd floor
Track OT19
Chair: Sonny Mumbunan

OT19.1
Cost and supply curves for tropical peat conservation and restoration
Rona Pradipta Yurismono1, Sonny Mumbunan2,1

OT19.2
Stated preferences to assess farmers’ contract preferences for the design of Payments for Ecosystem Services schemes: A systematic review
Christoph Schulze1, Claas Meyer1, Bettina Matzdorf1

OT19.3
Developing an online-marketplace for biodiversity and ecosystem services in Germany: Experiences and first lessons learnt
Marlen Krause1, Bettina Matzdorf1

OT19.4
Analyzing and modeling policy instruments designed to counteract rebound effects
Lara Ahmann1, Christian Lutz1, Maximilian Banning1, Markus Flaute1
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.1 Ecological macroeconomic models

11:00-12:30 Thursday, 20th June, 2019
XI, Natura, 2nd floor
Track OT20
Chair: Tiago Domingos

OT20.1
Why faith in energy efficiency improvements to help meet the Paris Agreement could be misplaced: exploring evidence and implications of large, economy-wide rebound
Paul Brockway¹, Victor Court², Matthew Heun³, Steve Sorrell³, Gregor Semieniuk⁴

OT20.2
An agent-based macroeconomic model to explore lock-in mechanisms in transitions to sustainable food provision systems
Julien Vastenaekels

OT20.3
Effective Unilateral Climate Policy in a North-South Stock-Flow Consistent Macroeconomic model
Nepomuk Dunz², Asjad Naqvi², Irene Monasterolo³

OT20.4
Economic causalities and induced feedback effects: An illustrative exposition of distinctive gaps between biophysical and econometric dynamic assessment models
Mark Meyer¹, Martin Distelkamp¹

OT20.5
From Useful Exergy to the Thermodynamics of Growing Systems: A Biophysical Approach Unlocks the Puzzles of Economic Growth
Tiago Domingos¹, Tânia Sousa¹

OT20.6
A new efficiency measure with an extended energy sector: the Exergy Return On Investment (ExROI) of a society
Marco Vittorio Ecclesia²,³, Tiago Domingos³
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.5 Political Economy and capitalism
11:00-12:30 Thursday, 20th June, 2019
M3, Quantum, 3rd floor
Track OT21
Chair: Jan Otto Andersson

OT21.1
Low-carbon well-being is political: findings from the Living Well Within Limits project
Julia Steinberger

OT21.3
Value theory in ecological economics
Elke Pirgmaier

OT21.4
Ecologically Unequal Exchange
Jan Otto Andersson
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.4
Environmental values and valuation
11:00-12:30 Thursday, 20th June, 2019
XIV, Natura, 3rd floor
Track OT23
Chair: Alla Pakina

OT23.1
Pro-environmental norms and subjective well-being: panel evidence from the UK
Martin Binder¹, Ann-Kathrin Blankenberg², Heinz Welsch³

OT23.2
Impact of beliefs about negative effects of wind turbines on preference heterogeneity regarding renewable energy development in Poland
Anna Bartczak¹, Wiktor Budziński¹, Bernadeta Gołębiowska³

OT23.3
Deliberative valuation of peatland ecosystem services in Finland
Heli Saarikoski

OT23.4
Value landscapes and public preferences for dealing with the impacts of dam construction
Christopher Schulz¹, Julia Martin-Ortega², Klaus Glenk³

OT23.5
Low Carbon Development Options in the Volga Region: Evaluation of Ecosystem Services Contribution
Alla Pakina
REDESIGNING INSTITUTIONS, 5.1 Knowledge co-production for democratic decision making
11:00-12:30 Thursday, 20th June, 2019
XV, Natura, 4th floor
Track OT26

Chair: Paula Saikkonen

OT26.1
The governance of bioeconomy - exploring the relationship of bioeconomy expansion and small farm survival
Wibke Crewett1, Maria Proestou1

OT26.2
Theories of change in transition arena analysis – co-creation of experiments for energy transition in Finland
Jani Lukkarinen1, Kaisa Matschoss2,3, Petteri Repo2

OT26.3
The sustainability nexus: a challenge for ecological economics.
Zora Kovacic

OT26.4
How can deliberative multicriteria evaluation frameworks support multilevel governance in ecological distribution conflicts? The case of windfarm conflicts in Turkey
Cem Iskender AYDIN

OT26.5
Redesigning the Nordic Welfare State – possibility of eco-social rationalities?
Paula Saikkonen
THURSDAY 20 JUNE, 14:30-16:00

What happened to the silver bullet? Assessing Payments for Ecosystem Services' real world performances

14:30-16:00 Thursday, 20th June, 2019
M2, Quantum, 2nd floor
Track SS10

SS10.1
Unpacking impact? Questioning the epistemic underpinnings of current impact evaluations in Payments for Ecosystem Services

Gert Van Hecken²,¹, Vijay Kolinjivadi³

SS10.2
A causal role of Equity for Effectiveness and Efficiency in Payments for Ecosystem Services schemes: Evidence from a lab-in-the-field experiment in Vietnam

Lasse Loft¹, Stefan Gehrig², Jens Rommel³, Carl Salk⁴

SS10.3
Assessing effective Payments for Ecosystem Services design: Qualitative Comparative Analyses in Germany and China

Claas Meyer¹, Cheng Chen²,¹, Bettina Matzdorf³,¹

SS10.4
Wind power parks and voluntary landscape protection: An exploration for the novel economic instrument

Erkki Mäntymaa³, Eija Pouta²
Paving the way for post-growth policymaking

14:30-16:00 Thursday, 20th June, 2019

XVI, Quantum, 1st floor

Track SS19

Session I: Developing a preliminary core policy agenda for post-growth macroeconomics

SS19.1

Changing the game: A framework for policy coherence to move policymaking in the European Union beyond growth

Jonathan Barth¹, Christoph Gran¹, Jakob Hafele¹
Exploring the potential applications of measures of economic welfare: how to stimulate their use in policy-making?

14:30-16:00 Thursday, 20th June, 2019
Seminar room 251, Natura, 2nd floor
Track SS14

SS14.1
Progress in welfare measurements and its political usefulness
Jukka Hoffrén

SS14.2
Two potential interpretations and uses of the ISEW/GPI
Jonas Van der Slycken

SS14.3
Moving away from GDP? Aligning indicators of societal well-being with policy-makers’ worldviews as a mechanism for enhanced use
Christine Corlet Walker¹, Angela Druckman¹, Claudio Cattaneo²

SS14.4
Measuring the Genuine Progress Indicator (GPI) for every country: Challenges and some novel measurement approaches
Philip Lawn
Conditions and processes of governance innovations for forest ecosystem service provision

14:30-16:00 Thursday, 20th June, 2019
XX, Agora, 1st floor
Track SS15

SS15.1
A social-ecological-technical analysis framework for forest ecosystem services governance innovations
Stefan Sorge¹, Carsten Mann¹

SS15.2
Can Forest Management Units facilitate a reform space for co-management in Indonesia?
Katja Pellini¹, Riko Wahyudi²

SS15.3
More than a forest - multiple uses, trade-offs and future perspectives
Christian Schleyer¹, Jutta Kister¹, Michael Klingler¹

SS15.4
A dynamic strategy-driven institutional landscape for forest ecosystem service provision
Eeva Primmer¹, Liisa Varumo¹
Unlocking new insights into the economic-ecological aspects of global energy transitions: construction of a World Primary-Final -Useful (WPFU) energy database from 1800 onwards

14:30-16:00 Thursday, 20th June, 2019
XVII, Quantum, 2nd floor
Track SS16

SS16.1
A database for world primary, final, and useful energy and exergy information
Matthew Heun

SS16.2
Global animal and human muscle work (1800-2010)
Paul Brockway

SS16.3
Electricity: construction of a World Primary-Final-Useful (WPFU) energy database from 1900 onwards
Tânia Sousa

SS16.4
Long-run trends in world heat efficiency: a world database since 1800
Sofia Teuves Henriques
Extra: Tribute to Felix Rauschmayer's "Interdisciplinarity for transdisciplinarity"
14:30-16:00 Thursday, 20th June, 2019
XVIII, Quantum, 3rd floor
Track SS17

Connecting inner and outer dimensions of sustainability and the importance of Interbeing
Facilitators: Ines Omann and Niko Schäpke
Interactive format; max. 25 participants

In this session we aim to reflect on his thoughts given in his last paper: “Transition to Sustainability as Interbeing – or: from oncology to ontology” (which will be summarised as an introduction to the session) and to discuss (in pairs and in a circle) why the personal (and inner) dimension of sustainability seems so difficult to address personally and also in the discourse on sustainability, and what might be needed to change that.
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.2
Nature-based solutions 1.3 Green and blue infrastructure

14:30-16:00 Thursday, 20th June, 2019
Seminar room 215, Natura, 2nd floor
Track OT22

Chair: Daniel Johnson

OT22.1
Influence of interview location in preference elicitation concerning ecosystem services provided by trees in urban areas
Piotr Matczak, Marcin Mielewczyk, Krzysztof Mączka, Patrycja Przewoźna

OT22.2
The economic value of the benefits of NBS measures in a river basin context: A meta-analysis regression
Amandine GNONLONFIN, Nabila Arfaoui

OT22.3
Plant trees for the planet: Forests as climate solution and avenues ahead
Sebastian Mader

OT22.4
Valuing ecosystem services of sustainable urban drainage systems: Resident perspectives and willingness-to-pay of residents in Berlin, Germany
Daniel Johnson, Sylvie Geisendorf
DEVELOPING SUSTAINABLE FUTURES, 3.4 Social metabolism and industrial ecology
14:30-16:00 Thursday, 20th June, 2019
QU314, Quantum, 3rd floor
Track OT24
Chair: Stephan Lutter

OT24.1
The stock-flow-service nexus approach to socio-metabolic research: conceptual advances and first empirical examples
Helmut Haberl¹,Dominik Wiedenhofer¹,Gerald Kalt¹,Christoph Görg¹,Fridolin Krausmann¹

OT24.2
Socio-ecological transition, wealth creation and territorial metabolism: the case of the production of the AOC-labelled cheese Beaufort in the Maurienne Valley
Michela Bevione¹,²,Nicolas Buclet²,Jean-Yves Courtonne¹,Pierre-Yves Longaretti³

OT24.3
Looking for the inverted pyramid: An application using input-output networks
Louison Cahen-Fourot¹,Emanuele Campiglio¹,Elena Dawkins²,Antoine Godin³,Eric Kemp-Benedikt⁴

OT24.4
SCP-HAT – developing an online tool to support science-based national policy frameworks for sustainable consumption and production (SCP)
Stephan Lutter¹,Pablo Piñero²,¹, Maartje Sevenster³

OT24.5
Measuring Local Well-being in Italy: an analysis applied to Tuscan Municipalities
David Burgalassi¹,Tommaso Ferraresi²,Tommaso Luzzati¹,Agnese Peruzzi³
FORMULATING TRANSFORMATIVE POLICIES, 4.4 Sufficiency and reasonableness

14:30-16:00 Thursday, 20th June, 2019
XI, Natura, 2nd floor
Track OT25

Chair: Sanna Ahvenharju

OT25.1
Environmental ethics and the anthropocene: some insights from N. Georgescu-Roegen’s bioeconomics
Sylvie Ferrari

OT25.2
Dwelling space in Denmark: Approaching sufficiency?
Inge Roepke¹, Charlotte Louise Jensen¹

OT25.3
Acceptability of strong sustainable consumption measures among Finnish elite
Sanna Ahvenharju

OT25.4
An analysis of the contribution of whale sanctuaries to marine ecosystem-based management
David Cook¹, Laura Malinauskaite¹, Brynhildur Daviðsdóttir¹
REDESIGNING INSTITUTIONS, 5.3 Earth Jurisprudence, environmental justice and Political Ecology
5.4 Anthropocene and environmental governance

14:30-16:00 Thursday, 20th June, 2019
M3, Quantum, 3rd floor
Track OT27

Chair: Markku Oksanen

OT27.1
I, You, We? Who are the Human Persons Governing the Planet?
Martin de Wit

OT27.3
Securing Resource Tenure in the Green Economy: REDD+ in Laos
Yayoi Lagerqvist1, Sabaheta Ramcilovik-Suominen2

OT27.4
Birds and economy: utility-based classifications in Finland from the 1898 hunting decree to cormorant persecution
Markku Oksanen1, Timo Vuorisalo2

OT27.5
Proxy voting for the Earth system: Investigating shareholder governance of global tipping elements.
Ami Golland2,1, Victor Galaz2,1, Gustav Engström2
**THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.1 Ecological macroeconomic models**

14:30-16:00 Thursday, 20th June, 2019  
XIV, Natura, 3rd floor  
Track OT28  
*Chair: Louison Cahen-Fourot*

**OT28.1**  
Investigating the macroeconomic rebound effect and its mechanisms  
*Joëlle Saey-Volckrick¹, Steffen Lange², Tilman Santarius²,³*

**OT28.2**  
Cascades of stranded physical assets  
*Louison Cahen-Fourot¹, Emanuele Campiglio¹, Elena Dawkins², Antoine Godin³, Eric Kemp-Benedikt⁴*

**OT28.3**  
The EU’s Energy Roadmap 2050: a systemic and metabolic modelling approach to assess its socioeconomic impacts.  
*Jaime Nieto¹, Óscar Carpintero¹, Luis Javier De Miguel¹, Íñigo Capellán-Pérez¹, Ignacio de Blas¹, Margarita Mediavilla¹, Carlos De Castro¹, Pedro Lomax¹, Fernando Frechoso¹, Luis Fernando Lobejón¹, Gonzalo Parrado¹, David Álvarez¹, Paula Rodrigo¹*

**OT28.4**  
Analysis of key sectors and Decomposition of Multipliers in Bioeconomy: The case of Spain  
*Valeria Ferreira¹, Laia Pié¹, Antonio Terceño¹*

**OT28.5**  
Analysis of the European Directive "40% -27% -27% through the exogenous determination of Catalan production in a SAM Model  
*Laia Pié¹, Valeria Ferreira Gregorio¹, Jesús Rosales Carreón², Laura Fabregat-Aibar¹*

**OT28.6**  
Scenario-building grounded in exergy efficiency: Methods and results from the MEET 2030 Project  
*António Alvarenga¹, Cristina Marta-Pedroso², João Santos³, Laura Felício³, Luísa Almeida Serra³, Maria do Rosário Palha³, Nuno Sarmento³, Ricardo da Silva Vieira³, Ricardo Teixeira³, Sofia Santos³, Tânia Oliveira², Tânia Sousa², Tiago Domingos³*
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.5
Natural capital and ecosystem services
14:30-16:00 Thursday, 20th June, 2019
XV, Natura, 4th floor
Track OT30
Chair: Gael Plumecocq

**OT30.1**
Plural valuation of nature from theory to practice
Erik Gomez-Baggethun

**OT30.2**
Environmental valuation or eco-corrected prices?
Anders Ekeland

**OT30.3**
Preference Change in Deliberative Valuation
Richard Howarth

**OT30.4**
Loving the mess: Navigating diversity and conflict in social values for sustainability
Jasper O Kenter¹, Christopher Raymond², Dave Kendal³, Andrea Rawluk⁴, Carena van Riper⁵

**OT30.5**
The socio-political construction of ecosystem framework and evaluation
Gael Plumecocq¹, Géraldine Froger²
THURSDAY 20 JUNE, 16:30-18:00
Managing Agroecological Transitions. Diversity of trajectories and unlocking strategies
16:30-18:00 Thursday, 20th June, 2019
M2, Quantum, 2nd floor
Track SS18

SS18.1
Enacting agroecological transition as a (re)entanglement process. A political economy of feed self-sufficiency in livestock farming
Antoine Doré1, Vincent Thénard1

SS18.2
The role of grassroots innovation towards the agroecological transition
José Francisco Orozco Meléndez1, Jaime Paneque-Gálvez2

SS18.3
The role of local stakeholders and moral systems in farmers’ management practices of residual biomasses. A case study in Vallée de la Drome, France
Andréa Wiktor Gabriel1, Philippe Lescoat2, Sophie Madelrieux1

SS18.4
Conceptualizing the agroecological transition: the economies of worth and the geographies of transition
Valerie Angeon2,1, Olivier Crevoisier3

SS18.5
Agroecology is not only about ecology: How the social component of agroecology fosters the agroecological transition.
Stephanie Domptail

SS18.6
From valuing ecosystem services provided by grasslands to agricultural production: what insights to inform policy design? The case of the Normandy region in France.
Marie Asma BEN OTHMEN1, Mariia OSTAPCHUK1
Paving the way for post-growth policymaking (continues)

16:30-18:00 Thursday, 20th June, 2019

XVI, Quantum, 1st floor
Track SS21

Session II: Development of a roadmap to carry the research and policy agenda forward
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.2 Degrowth and post-growth economics

16:30-18:00 Thursday, 20th June, 2019
Seminar room 251, Natura, 2nd floor
Track OT29

Chair: Inês Cosme

OT29.1
What can Okun’s Law and the experience of Japan tell us about maintaining employment in a post-growth economy?
Hirooki Inaba1, Daniel O’Neill1

OT29.2
Assessing the relationship between sustainability initiatives and society in a degrowth perspective
Daniele Klein1, Inês Cosme1, Paula Antunes1

OT29.3
Debt and material throughput: learnings from the Eastern European semi-periphery
Oxana Lopatina

OT29.4
Can Digitalization Help to Decouple Economic Growth and Environmental Throughput?
Steffen Lange1, Johanna Pohl1, Tilman Santarius2

OT29.5
Articulating radical niche innovations and regime reforms towards a degrowth transition to a more sustainable society
Inês Cosme1, Rui Santos1

OT29.6
Degrowth and Technology: towards feasible, viable, appropriate and convivial imaginaries
Christian Kerschner2,1, Petra Wächtler3, Linda Nierling4, Melf-Hinrich Ehlers5
SAFEGUARDING BIODIVERSITY, CLIMATE, AND ECOSYSTEM SERVICES, 1.4
Natural capital and ecosystem services
16:30-18:00 Thursday, 20th June, 2019
XX, Agora, 1st floor
Track OT31
Chair: Thomas Hahn

OT31.1
How does nature framing influence conservation? A framed field experiment in the Lacandon jungle, Mexico
Marie FERRE1, Paula Novo2, Julia Martin-Ortega1, Azahara Mesa-Jurado3, Mariana Pineda3

OT31.2
Stakeholders’ perceptions on ecosystem services-based approaches in conservation practice in Chiapas, Mexico
Mariana Pineda1, Paula Novo2, M. Azahara Mesa-Jurado1, Julia Martin-Ortega3, Miguel Angel Diaz-Perera1, Alejandro Espinoza4

OT31.3
Private trees, public benefits and vice versa – participatory mapping on ecosystem services provided by trees and shrubs in rural and urban areas on private and public lands
Krzysztof Maczka1, Piotr Matczak1, Marcin Mielewczyk1, Patrycja Przewoźna1

OT31.4
Paying for Biodiversity Conservation and Ecosystem Services Delivery in Rural Landscapes in Portugal: co-creating policies that work for people and for nature
Rui Santos1, Paula Antunes1, Carlos Rio Carvalho2, Inês Cosme1, João Joanaz de Melo1, José Manuel Lima Santos3, Miguel Araújo4, Joana Santana4, Cristina Marta-Pedroso5, Alexandra Aragão6, Teresa Brissos1

OT31.5
The “resilience value” of ecosystems concerns general resilience and this is larger than the value of specified resilience and much larger than the financial economic insurance value of resilience.
Thomas Hahn1, Thomas Elmqvist1
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.1 Ecological macroeconomic models B

16:30-18:00 Thursday, 20th June, 2019
XVII, Quantum, 2nd floor
Track OT32

Chair: Tilman Hartley

OT32.1
Inequality without growth: assessing the solutions
Tilman Hartley1, Giorgos Kallis2, Jeroen Van Den Bergh2

OT32.2
The low carbon energy transition in the UK and up-scaling green finance – a system dynamics modelling approach
Sarah Hafner

OT32.3
Distributive justice and climate change economics
Axel J. Schaffer1, Darrel Moellendorf2, Sebastian Brun1

OT32.4
The role of population dynamics on the trade-off between economic growth and reduced CO2 emissions
Johannes Lohwasser1, Axel Schaffer1, Tom Brökel2

OT32.5
Thermodynamic efficiency and its role as an engine of economic growth
Marco Sakai1, Paul Brockway2, John Barrett2, Peter Taylor2

OT32.6
Is compound interest compatible with nongrowing economies? What the models tell us
Tilman Hartley1, Giorgos Kallis2, Jeroen Van Den Bergh2
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.1 Human needs and wellbeing B
16:30-18:00 Thursday, 20th June, 2019
XVIII, Quantum, 3rd floor
Track OT33

Chair: John Thøgersen

OT33.1
What is clean and comfortable? Understanding and challenging conventions in daily life
Senja Laakso1, Eeva-Lotta Apajalahti1, Kaisa Matschoss1

OT33.2
Climate Change, Agriculture and Food Security with reference to India
Mythili Gurumurthy

OT33.3
Social Equity and Ecological Sustainability - Can the Two be Achieved Together?
Franziska Dorn1, Thomas Kopp1

OT33.4
Do people consider climate impacts when acting?
Marianne Aasen1, Arild Vatn1,2, John Thøgersen3, Paul Stern4, Riley Dunlap5, Dana Fisher6, Ottar Hellevik7

OT33.5
Grassroots innovation to tackle food insecurity in marginalized communities: the case of vertical household gardens
Jaime Paneque-Gálvez2, Ana Rubia Bueno-Silva2
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.1 Human needs and well-being

16:30-18:00 Thursday, 20th June, 2019
Seminar room 215, Natura, 2nd floor
Track OT40

Chair: Jefim Vogel

OT40.1
OCEANOGRAPHIC CHANGES DRIVE INEQUALITY THROUGH CRITICAL MULTI-LEVEL INTERACTIONS IN THE HUMBOLDT SQUID FISHERY
Laura Elsler1, Gregory Lee Britten2, Timothy Haight Frawley3, Sonja Radosavljevic1

OT40.2
When climate policy meets social policy: a systematic map of the political economy literature
William Lamb

OT40.3
Estimating nations' efficiency as producers of well-being: A stochastic frontier approach to human well-being and resource use
Markus Richter

OT40.4
Well-being Indicators and sustainability at local level: A methodologically integrated approach
Fiona Ottaviani

OT40.5
Gatekeepers of sustainability and well-being: Provisioning systems as intermediaries between energy use and basic needs satisfaction
Jefim Vogel1, Julia K. Steinberger1, Daniel W. O'Neill1, William F. Lamb2
OT35.1
Is Green Identity a Middle Class Phenomenon?

Zakaria Babutsidze2,1, Ann-Kathrin Blankenberg3, Andreas Chai4

OT35.2
Ecological Implications of Network Effects on Markets for Digital Services

Thomas Kopp

OT35.3
Eco-pauperization – trade-offs between different uses of an urban green space

Jakub Kronenberg1, Edyta Łaszkiewicz1, Magdalena Biernacka1, Klara Pijewska1, Erik Andersson2

OT35.4
Consumers’ perceptions of rules for reducing carbon footprints of food

Astrid Kause1,3,2, Wändi Bruine de Bruin1,4,2, Joel Millward-Hopkins4, Henrik Olsson6

OT35.5
Human Scale Energy Services: a case study in Zambia

Lina Brand Correa1, Julia Steinberger1
DEVELOPING SUSTAINABLE FUTURES, 3.4 Social metabolism and industrial ecology
16:30-18:00 Thursday, 20th June, 2019
XI, Natura, 2nd floor
Track OT36
Chair: Nicolas Befort

OT36.1
Material use indicators (DMC ad RMC) and their relationship with per capita income

Tommaso Luzzati¹, Angela Parenti¹, Stefan Giljum²

OT36.2
Service-driven recast of industrial energy demand for decarbonization pathways

Alessio Mastrucci¹, Jihoon Min¹, Narasimha D. Rao¹

OT36.3
The impact of electrification in Portugal’s exergy efficiency and aggregated carbon intensity in the 20th century

Laura Felício¹, Sofia Henriques², Tânia Sousa¹

OT36.4
A review of waste conceptualization – revealing the controversy regarding its commodification

Nicolas Befort¹, Manuel Morales²,¹
FORMULATING TRANSFORMATIVE POLICIES, 4.5 Sharing economy
16:30-18:00 Thursday, 20th June, 2019
M3, Quantum, 3rd floor
Track OT37

Chair: Sanna Ala-Mantila

OT37.1
The environmental impact of the sharing economy: A review of the literature
Maria Sandberg

OT37.2
Sharing economy in a circulation economics perspective
Are Ingulfsvann1, Ove Daniel Jakobsen1

OT37.3
Development and Potential of Sharing Economy: Case of Different Countries’ Experience
Tatjana Tambovceva1, Dzineta Dimante2, Maria Tereshina3, Tatiana Pimonenko4

OT37.4
Socioeconomic inequalities in green space availability in relation to residential segregation
Edyta Laszkiewicz1, Jakub Kronenberg1, Szymon Marcinczak1

OT37.5
The urban migration patterns – a case study of city of Vantaa
Sanna Ala-Mantila1, Henrik Lönnqvist2
REDESIGNING INSTITUTIONS, 5.1 Knowledge co-production for democratic decision making
16:30-18:00 Thursday, 20th June, 2019
XIV, Natura, 3rd floor
Track OT38

**Chair: Eszter Kelemen**

**OT38.1**
The legacy of the World Commission on Dams as a science-policy interface

Christopher Schulz¹, William M. Adams¹

**OT38.2**
The myth of landowner sovereignty in Finnish forestry

Nina Janasik¹, Steven Wolf², Daniel Burgas Riera¹, Mikko Mönkkönen³, Janne Hukkinen¹

**OT38.3**
Knowledge co-production with youth for environmental justice in the regional land-use planning

Aino Rekola¹, Sanna-Riikka Saarela¹, Arto Viinikka¹, Riikka Paloniemi¹

**OT38.4**
Learning in and about sustainability transformations with collaborative models: the case of surplus food redistribution systems

Nuno Videira¹, Krystyna Stave², Alexander Dorodeiko³

**OT38.5**
Networking at the science-policy interface: Reflections from the EKLIPSE project

Eszter Kelemen¹, Zoi Konstantinou³, Liisa Varumo⁴, György Pataki⁵¹, Isabel Sousa Pinto³
THE ECONOMICS OF SUSTAINABILITY TRANSFORMATIONS, 6.2 Ecological macroeconomic models
16:30-18:00 Thursday, 20th June, 2019
XV, Natura, 4th floor
Track OT39
Chair: João Santos

OT39.1
Modelling distributional impacts of the renewable transition with experts’ participation

Martin Cerny1, Christian Kimmich1, Christian Kerschner1,2, Klaus Hubacek3

OT39.2
Quantification of Economy-wide Rebound Effects using factor-augmented VAR Models

Anne Berner1, Stephan B. Bruns2, Alessio Moneta3, David I. Stern4

OT39.3
Economic and Environmental Impacts of Paris Agreement Implementation Across the European Union

Valny Giacomelli Sobrinho1, Eva Cudlinova2, Jiri Sedlak2

OT39.4
An Ecological Macroeconomic Model for Policy-Mix Design: the Italian Case

Tiziano DISTEFANO1, Simone D’Alessandro1, André Cieplinski1

OT39.5
Exploring the links between energy and growth in Europe: a panel cointegration analysis with useful exergy for EU countries

João Santos1, Tiago Domingos1, Tânia Sousa1, André Serrenho1
FRIDAY 21 JUNE, 11:00-12:30

Sustainable Welfare and Eco-social policies – Solutions for the Post-Growth Society
1:00-12:30 Friday, 21st June, 2019
Cave, JOKI, 1st floor
Track SS20

SS20.1
Political orientations and public support for an eco-social policy in Europe
Martin Fritz

SS20.2
State Welfare Provision and Environmental Protection after Growth
Christine Corlet Walker¹, Angela Druckman¹, Tim Jackson¹

SS20.3
Ecosocial policies from the perspective of grassroots level ecosocial innovations in Europe
Tuuli Hirvilammi¹, Ingo Stamm¹

S20.5
Money, vouchers, public infrastructures? The ecological distribution of social benefits
Katharina Bohnenberger

SS20.6
Barriers and opportunities for advancing a green tax reform in the transition to a post-growth economy
Tone Svendsen Endal¹, Erik Gómez-Baggethun²¹
Collaborative path-finding
11:00-12:30 Friday, 21st June, 2019
Theater, JOKI, 3rd floor
Track SS22
Co-creation workshop: linking exergy-ecological-degrowth macroeconomic modellers to co-create new research project(s)
11:00-12:30 Friday, 21st June, 2019
Amphitheater, JOKI 1st floor
Track SS23
Building and Connecting Resistance to Aviation

11:00-12:30 Friday, 21st June, 2019
Exhibition room, JOKI, 2nd floor
Track SS24

SS24.1
De Groene Locomotief initiative at Ghent University
Jonas Van der Slycken
Boundary Bazaar for social-ecological systems
11:00-12:30 Friday, 21st June, 2019
Workshop, JOKI, 3rd floor
Track SS25

SS25.1
'Leverage points' as a boundary object for ecosystem services research
David Abson

SS25.2
Collaborative governance approaches as boundary organizations for an improved provision of ecosystem services at landscape scale
Claudia Sattler¹, Barbara Schroeter¹

SS25.3
Ecosystem Services as a Boundary Concept
Christian Schleyer¹, Alexandra Lux²,³, Marion Mehring²,⁴, Christoph Görg⁵
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.5 Human behaviour and habits A
11:00-12:30 Friday, 21st June, 2019
ICT-building
Track OT34
Participants will meet at the lobby of JOKI from where you will be guided to your session room at ICT-building.
Chair: Kevin Grecksch

OT34.1
Green behavioural (in)consistencies: Are pro-environmental behaviours in different domains substitutes or complements?
Sandra Schusser\textsuperscript{2,1}, Göran Bostedt\textsuperscript{2,1,3}

OT34.2
Sustainable consumption choices - what can carbon footprinting reveal about them?
Jukka Heinonen\textsuperscript{1}, Juudit Ottelin\textsuperscript{2}, Sanna Ala-Mantila\textsuperscript{2}

OT34.3
Narratives, myth and human behaviour in times of climate change
Jessica Holzhausen\textsuperscript{1}, Kevin Grecksch\textsuperscript{2}

OT34.4
Welfare neutral ecological footprint reduction
Bart Defloor\textsuperscript{1}, Brent Bleys\textsuperscript{1}, Luc Van Ootegem\textsuperscript{1}, Elsy Verhofstadt\textsuperscript{1}
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.3 Ethics and sustainable diets 2.4 Work and leisure

11:00-12:30 Friday, 21st June, 2019
ICT-building
Track OT41

Participants will meet at the lobby of JOKI from where you will be guided to your session room at ICT-building.

Chair: Ernst Nuppenau

OT41.1
Institutional work and the transition of the Finnish milk regime
Markus Vinnari1, Minna Santaoja2, Pekka Jokinen1

OT41.2
A conceptual framework for post-growth work in the global North
Eeva Houtbeekers

OT41.3
A proposal for a critical conception of work in ecological economics
Ernest Aigner1, Stefanie Gerold1

OT41.4
Time prosperity: Going beyond working-time reduction to enhance human well-being and sustainable lifestyles
Stefanie Gerold1, Gerrit von Jorck1

OT41.5
What can Georgescu-Roegen tell us today about Reproduction, Food Provision and Sustainability in Peasant Economies: On Modelling and Joint Valuation of Resources
Ernst Nuppenau
RECONCILING CONSUMPTION, NEED AND WELLBEING, 2.5 Human behaviour and habits
11:00-12:30 Friday, 21st June, 2019
ICT-building
Track OT42

Chair: Brent Bleys

OT42.1
Urban Agriculture Food Production: Consumer’s preference, and willingness to pay.
Marie Asma BEN-OTHMEN1, Mariia OSTAPCHUK1, Rick Gethro MACAJOUX1

OT42.
Food Self-Provisioning as an Answer to the Metabolic Rift: The Case of ‘Dacha Resilience’ in Estonia
Lilian Pungas

OT42.3
The Ecological Footprint and Self-Assessments of Environmental Impacts of Individuals
Brent Bleys1, Bart Defloor1, Elsy Verhofstadt1, Luc Van Ootegem1
REDESIGNING INSTITUTIONS, 5.4 Anthropocene and environmental governance
11:00-12:30 Friday, 21st June, 2019
ICT-building
Track OT43
Chair: Paula Novo

OT43.1
Shifting Cultivation and Everyday Forms of Community Resilience in Subsistence Communities in Laos: Livelihood Transformations and Power Relations
Sabaheta Ramcilovic-Suominen¹, Juha Kotilainen²

OT43.2
Actors and interests in the formulation of the Brazilian targets for the Paris Agreement: from policy content to policy process, and back again
Maria Cristina Oliveira Souza¹, Débora Naidhig¹, Rosana Icassatti Corazza¹

OT43.3
Biodiversity governance through a values lens
Paula Novo¹, Scott Herrett², Nazli Koseoglu², Anja Byg²