



INTERNATIONAL CONFERENCE ON SOCIO-ENVIRONMENTAL FOOTPRINTS (ICSEF): ENERGY, MATERIALS, JUSTICE AND WASTE.

PROGRAMME



International Conference on Socio-Environmental Footprints

www.ICSEF.eus

13th of June 2024 (Thursday)

9:00h	Registration + Documents. Faculty of Letters (Campus Araba UPV/EHU)
9:30h	Inauguration and Presentation
9:30 - 9:40h	Medicus Mundi: Working experiences on cooperation for development and environmental justice.
9:40 - 9:50h	Estitxu Villamor: Welcome. What is a footprint? How embodied impacts in goods and services have overcome the direct emissions in human life's.
9:50 - 10:00h	Maidier Iturriondobeitia: Life Cycle Thinking Group (LCTG) and the master of Circular Economy.
10:00 - 10:30h	Keynote Speakers 1 Anne Owen: Living styles, gender, age, does affect to the footprint and GMRIO is showing them. (10 mins questions)
10:30 - 11:00h	Keynote Speakers 2 Jukka Heinonen: The potential of Life Cycle Assessment in the quantification of socio-environmental impacts and future research lines.
11:00 - 14:00h	MATERIALS FOOTPRINT PANEL. Footprints of different products, companies and services. Coordination: Maidier Iturriondobeitia 15 Researches 10min+2 min questions.
14:00 - 15:00h	Lunch in the Faculty cafe
15:00 - 18:00h	WASTES FOOTPRINT PANEL. International waste measurement, circular economy and optimization. Coordination: Gorka Bueno 15 Researches 10min+2 min questions.
18:00 - 18:30h	Instructions for next day

14th of June 2024 (Friday)

Inscriptions and registration Faculty of Letters (Campus Araba UPV/EHU)
Keynote Speakers 3 Jens Peters: Latest LCA research on sustainable energy storage systems. (10 mins questions)
Keynote Speakers 4 Julia Martí Comas and Ana María Palacios, Colectivo Amarantas: How to identify, measure and revert the social impacts of corporates in Global South, feminism perspective. (10 mins questions)
ENERGY FOOTPRINT PANEL. Footprints of current whole energy system or certain components/products. Coordination: Erlantz Lizundia 15 Researches 10min+2 min questions.
Lunch in the Faculty cafe
JUSTICE FOOTPRINT PANEL. How global North and Global south are relating facing international footprints responsibility. Coordination: Estitxu Villamor 15 Researches 10min+2 min questions.
Best research awards: Recognition of the Scientific Committee. 100 € best paper of each panel (4): Materials, Energy, Waste and Justice footprints. Closure

*Coffee and biscuits available all the time outside the room.





13th June
11:00-14:00

MATERIALS FOOTPRINT PANEL.

Footprints of different products, companies and services.

Coordination: Maider Iturriondobeitia.



10 Researches 14 min+4 min questions.

- 1** **Speaker:** Gorka Bueno.
11:00-11:18 **Title:** Inventory definition for the calculation of the environmental and organisational footprint of the UPV/EHU.
- 2** **Speaker:** María Lozano.
11:18-11:36 **Title:** Design and optimization of graphene production processes applying Life Cycle Assessment.
- 3** **Speaker:** Maialen Martinez-Aguirre.
11:36-11:54 **Title:** Implementation of a CryoMQL cooling/lubrication technique in the Faculty of Engineering of Vitoria-Gasteiz of the UPV/EHU for a more eco-efficient machining process.
- 4** **Speaker:** Madalen Azpitarte Aretxabaleta.
11:54-12:12 **Title:** Fungi as promising source of chitin.
- 5** **Speaker:** Óscar del Hierro Cerezo.
12:12-12:30 **Title:** Climate change impact on wheat production in Araba through the IPCC guidelines.
- 6** **Speaker:** Hugo Afonso Gonzalez.
12:30-12:48 **Title:** Life Cycle assessment of natural fiber treatments for the development of natural fiber reinforced bio based composites.
- 7** **Speaker:** Jukka Heinonen.
12:48-13:06 **Title:** Energy footprints in Iceland.
- 8** **Speaker:** Belén Rey Álvarez.
13:06-13:24 **Title:** Human Toxicity emissions of buildings – Critical reflection of building material toxicity and the application of the principle of taxonomy.
- 9** **Speaker:** Antonio García Martínez.
13:24-13:42 **Title:** The INDICATE Project: A co-creation approach to obtain benchmark values for whole-life carbon emission of the building sector in Spain.
- 10** **Speaker:** Kevin Joseph Dillman.
13:42-14:00 **Title:** Life cycle assessment of passenger and freight transport in the European context.



13th June
15:00-18:00

WASTES FOOTPRINT PANEL.

International waste measurement, circular economy and optimization.

Coordination: Gorka Bueno.



10 Researches 14 min+4 min questions.

- 1** **Speaker:** Javier Cesar Muñoz.
15:00-15:18 **Title:** Evaluating the economic sustainability of chitin obtained from fungal resources for a circular biobased economy.
- 2** **Speaker:** Belén Rey Álvarez.
15:18-15:36 **Title:** Whole-Life Carbon Emissions of Buildings Data Analysis, Supervised Learning.
- 3** **Speaker:** Naiara Rojo.
15:36-15:54 **Title:** Uncovering Greenhouse Gas Emission Hotspots in Municipal Waste Management for Sustainable Practices in Araba/Álava.
- 4** **Speaker:** Leire Cantero.
15:54-16:12 **Title:** Comparison of Environmental Impact between Conventional Gluten-Free Breads and Those Enriched with Agro-Food Residues: A Case Study with Apple Pomace From Cider Industry.
- 5** **Speaker:** María Dolores Bovea.
16:12-16:30 **Title:** Indicators and metrics for evaluating the social performance of municipal waste management systems in mid-/low-income areas.
- 6** **Speaker:** Karen Valls-Val.
16:30-16:48 **Title:** Application of Sustainable Public Procurement Criteria in Canteen Services in Spanish Universities.
- 7** **Speaker:** Óscar del Hierro Cerezo.
16:48-17:06 **Title:** Atmospheric carbon dioxide capture and emissions reductions governance Outline and Peri-urban agriculture for Sustainable food system in Vitoria-Gasteiz.
- 8** **Speaker:** Stiven Lopez Guzman.
17:06-17:24 **Title:** Challenges and opportunities in the direct recycling of new-generation cobalt-free cathode material.
- 9** **Speaker:** Eduardo Blanco-Espeleta.
17:24-17:42 **Title:** Information for repair decision: consumer implications from environmental and economic perspectives.
- 10** **Speaker:** Guillermo Rodríguez López.
17:42-18:00 **Title:** Where does employment really occur due to investments in wind energy?



14th June ENERGY FOOTPRINT PANEL.

11:00-14:00 Footprints of current whole energy system or certain components/products.

Coordination: Erlantz Lizundia.



10 Researches 14 min+4 min questions.

- 1** **Speaker:** Markel Arbulu.
11:00-11:18 **Title:** Optimisation of passive energy renovation strategies in residential buildings for life cycle global warming potential reduction and cost-effectiveness.
- 2** **Speaker:** Alex Tro-Cabrera.
11:18-11:36 **Title:** Material footprint of rooftop photovoltaics in the city of Vitoria-Gasteiz.
- 3** **Speaker:** Arkaitz Usubiaga Liaño.
11:36-11:54 **Title:** Spanish carbon footprint estimates at NUTS 2 level.
- 4** **Speaker:** Mireia Martín.
11:54-12:12 **Title:** Sustainable Energy Storage: Advancing Sodium Batteries with Biopolymers.
- 5** **Speaker:** Lierni Rabanete González.
12:12-12:30 **Title:** Business Model patterns for Renewable Energy Communities.
- 6** **Speaker:** Estitxu Villamor.
12:30-12:48 **Title:** Energy footprint of Spanish households according to regional and socioeconomic characteristics.
- 7** **Speaker:** Juan Manuel Campos.
12:48-13:06 **Title:** System Dynamics Analysis of Hydrogen Potential and Limitations for Energy Transition.
- 8** **Speaker:** Jacid Montoya Torres.
13:06-13:24 **Title:** Environmental impacts of oil extraction in the Yasuní Reserve of the Amazonian Forest: combined qualitative and Life-Cycle Assessment.
- 9** **Speaker:** Marta Diez Viera.
13:24-13:42 **Title:** Applicability of circular indicators in the assessment of wind turbine blade end-of-life management alternatives.
- 10** **Speaker:** Felipe Díaz Alvarado.
13:42-14:00 **Title:** Regenerative Design in Photovoltaic Solar Systems: The Canela Solar Park Project.



14th June
15:00-18:00

JUSTICE FOOTPRINT PANEL.

How global North and Global south are relating facing international footprints responsibility.

Coordination: Estitxu Villamor.



8 Researches 14 min+4 min questions.

- 1** **Speaker:** Gemma Morell.
15:00-15:18 **Title:** The journey of a discarded t-shirt: from the Global North to the Atacama illegal landfill.
- 2** **Speaker:** María Victoria Román.
15:18-15:36 **Title:** Measuring footprints of agri-food consumption with Agro-SCAN, a new Multi-Regional Input-Output database.
- 3** **Speaker:** Luz Marina Ruiz Hernández.
15:36-15:54 **Title:** Integration of Life Cycle Assessment (LCA) knowledge in the Environmental Sciences Degree: Analysing the andalusian universities.
- 4** **Speaker:** Jonathan Michel Barba Godinez.
15:54-16:12 **Title:** Biodegradability assessment of new biodegradable and compostable batteries: understanding the end-of-life scenarios.
- 5** **Speaker:** Julia Sborz.
16:12-16:30 **Title:** What does low-carbon living look like in Europe in various types of built environments?
- 6** **Speaker:** Iñaki Sasia.
16:30-16:48 **Title:** Amalur EIS: A system for calculating the environmental footprints of industrial sites from E-PRTR records.
- 7** **Speaker:** Eneko Garmendia.
16:48-17:06 **Title:** Improving the social impact of Higher Education Institutions: Combining SO-LCA and Multi-Criteria Evaluation.
- 8** **Speaker:** Mohammed Salem.
17:06-17:24 **Title:** Exploring the Impact of Economic Incentives on Food Waste Reduction: The Moderating Role of Financial Constraints.
- 9** **Speaker:** Marina Isasa.
17:24-17:42 **Title:** Exploring the Impact of Economic Incentives on Food Waste Reduction: The A multi-criteria evaluation of shifting to local production in the textile sector: ORIENTING LCSA methodology application