

11TH INTERNATIONAL CONFERENCE  
ON INDUSTRIAL ECOLOGY  
JULY 2-5 2023



Program (June 30 version)

The program is subject to change before and during the conference.  
Please refer to the online and mobile app versions of the program for last minute changes:



<https://isie2023.exordo.com/programme>



Welcome to the 11th International Conference on Industrial Ecology (ISIE2023) of the International Society for Industrial Ecology. Following a lengthy delay caused by Covid19, we're excited that the conference makes its way back to Leiden, the Netherlands, where the first ISIE conference was held in 2001.

The theme of the conference is Transitions in a world in turmoil. The way we use energy and resources in our present system is not sustainable. Major changes are necessary in our energy system to make it climate-neutral. At the same time our use of land, water and material resources needs to change dramatically to become sustainable. To avoid further deterioration of nature and our environment and resource supply constraints we must move toward a circular economy, while at the same time ensuring equitable transitions. The Covid19 crisis and the Russian aggression in Ukraine have caused have changed the geopolitical context in which these transitions will have to take place. During the conference, we will discuss the challenges the world is facing, the changes that are necessary to remain within planetary boundaries, and the solutions that could be employed in a technical, behavioural and organisational sense to meet these challenges.

Contact information:

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**Website:** <https://isie2023netherlands.nl/>

For urgent matters during the conference you can also get support from the reception desk at the KOG building or call +31-85-401-3986. This number is available 8:00-18:00 from Saturday 1 July to Wednesday 5 July.

Conference venues addresses:

Stadsgehoorzaal - Keynotes and opening/closing sessions venue [Breestraat 60, 2311 CS Leiden](#)

Pieterskerk - Poster sessions venue [Kloksteeg 16, 2311 SL Leiden](#)

Kamerlingh Onnes Building (KOG) - Parallel sessions venue [Steenschuur 25, 2311 ES Leiden](#)

Naturalis - Conference dinner venue [Darwinweg 2, 2333 CR Leiden](#)



Continued from **Sunday, 2 July**

15:24 **Analysis of efficient waste transportation methods to enable incineration heat supply to Japan's chemical industry**  
 » [Makiko Doi](#)<sup>1</sup>, Katsuhiko YOSHIKAWA<sup>1</sup>, Takashi Tsubouti<sup>1</sup>, Masaki Murakami<sup>2</sup>, Toshiro Bandai<sup>2</sup>, Keitaro Ikeda<sup>3</sup>, Toshiki Kitai<sup>3</sup>, Minoru Fujii<sup>4</sup> (1. EX Research Institute Ltd., 2. NIPPON EXPRESS CO., LTD, 3. GUUN Co.,Ltd., 4. National Institute for Environmental Studies)

15:32 **An evolutionary institutional framework to evaluate circular economy performance: Empirical findings from China and Hong Kong**  
 » [Benjamin Steuer](#)<sup>1</sup> (1. The Hong Kong University of Science and Technology)

15:40 **Combining woody and waste biomass use for innovative urban symbiosis**  
 » [Satoshi Ohnishi](#)<sup>1</sup>, Hidetoshi Kuramochi<sup>2</sup>, Takuro Kobayashi<sup>2</sup>, Shogo Nakamura<sup>1</sup>, Minoru Fujii<sup>1</sup>, Kei Gomi<sup>1</sup> (1. National Institute for Environmental Studies, 2. Material Cycles Division, National Institute for Environmental Studies)

15:48 **Development classification Model of Demand-Place Industries by Text Analysis Using Company Names and Estimated of Spatial Heat Supply Potential from Waste for Circular Economical Potential Evaluation -Case Study on Steam Supply-**  
 » [Seiya Maki](#)<sup>1</sup>, Satoshi Ohnishi<sup>1</sup>, Minoru Fujii<sup>1</sup>, Naohiro Goto<sup>2</sup> (1. National Institute for Environmental Studies, 2. Toyo University)

15:00 **Social Dimensions 1**  
*B0.13 KOG*  
 Chaired by: Jooyoung Park

15:00 **Creating pluralistic pathways to city-level food waste management**  
 » [Azra Sungu](#)<sup>1</sup>, Weslyne Ashton<sup>1</sup>, Maura Shea<sup>1</sup> (1. Illinois Institute of Technology)

15:15 **Gender and Plastics: Identifying gender issues in the plastic value chain and circular economy in the case of Korea**  
 » Hana Kim<sup>1</sup>, Dawoon Jung<sup>2</sup>, Munsol Ju<sup>2</sup>, [Jooyoung Park](#)<sup>3</sup> (1. Korea Advanced Institute of Science and Technology, 2. Korea Environment Institute, 3. Seoul National University)

15:30 **Integrating sustainable development objectives into Official Development Assistance: Exploring the effectiveness of French ODA in Vietnam to strengthen the country's capacity to adapt to and mitigate climate change**  
 » [Margaux DUHEM](#)<sup>1</sup>, Masachika Suzuki<sup>1</sup> (1. Sophia University)

15:45 **Sharing and consuming in space - what is important to know for the planning of a Sharing City?**  
 » [Divia Jimenez Encarnacion](#)<sup>1</sup>, Leonardo Rosado<sup>1</sup>, Liane Thuvander<sup>1</sup> (1. Chalmers University of Technology)

15:00 **Life Cycle Sustainability Assessment**  
*B0.17 KOG*  
 Chaired by: Hua Cai

15:00 **Holistic and Integrated Life Cycle Sustainability Assessment: Background, Methods and Results from Two Case Studies**  
 » [Walther Zeug](#)<sup>1</sup>, Alberto Bezama<sup>1</sup>, Daniela Thrän<sup>1</sup> (1. Helmholtz Centre for Environmental Research)

15:15 **Life Cycle Sustainability Assessment (LCSA) of substituting fossil-based with biogenic products under different conditions - a case study on two product systems in the region of Augsburg, Germany**  
 » [Felix Assies](#)<sup>1</sup>, Lukas Messmann<sup>1</sup>, Andrea Thorenz<sup>1</sup>, Axel Tuma<sup>2</sup> (1. Resource Lab / Center for Climate Resilience - Augsburg University, Germany, 2. Chair for Production & Supply Chain Management - Augsburg University, Germany)

15:30 **Model-based LCSA**  
 » [Andreas Ciroth](#)<sup>1</sup> (1. GreenDelta)



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