

# 17<sup>th</sup> Society and Materials (SAM) International Conference

2<sup>nd</sup> Call for abstract

Karlsruhe, Germany  
9-10 May 2023

# Society and Materials

The 17th Society and Materials conference, SAM17, will take place on May 9-10, 2023, in Karlsruhe, Germany.

For more than **16 years**, SAM conferences have been an international forum for exchanging on new methodologies, new concepts and new issues that connect materials and society from different perspectives, ranging from social to engineering sciences.

As such, they have been a laboratory for thought and for knowledge experiments, which have produced about **800 papers** and introduced some of the best intuitions in these areas - which were then further developed elsewhere.

Issues and questions sitting at the heart of contemporary societal challenges and of expected paradigm shifts are also being covered as a kind of application lab.

Some special disciplines like Material Flow Analysis or Life Cycle Assessment, have been an important part of the meetings, as long as they were focusing on new directions and on innovative methodologies.

More scientific approaches, driven by social science, economics or materials science have also been presented. The focus was always on pluridisciplinarity and interdisciplinarity.

The **17<sup>th</sup> edition** should reflect the same level of curiosity, inquisitiveness, intellectual boldness and innovative thinking as the previous ones!

# Main conference themes

## Scientific approaches

- New developments in Life Cycle Assessment, Material Flow Analysis and other methodologies
- New social, economic, environmental and sustainability indicators
- Internalization of societal and environmental externalities into the economy
- Eco-design and eco-innovation
- Circular economy and sustainable business models
- Responsible research and innovation on materials
- Governance, public and social engagement
- Gender issues, material culture and society
- Open science, citizen science, scientific citizenship and materials research

## Fields of application



**Climate change**



**Energy transition**



**Materials and battery**



**E-mobility**



**Sustainability**



**Sustainable City & Infrastructures**



**Circular economy**



**Industrial symbiosis**



**Manufacturing & end-of-life processes**



**Ecosystem & land use**



**Biodiversity**



**Air quality**



**Health**



**Water**

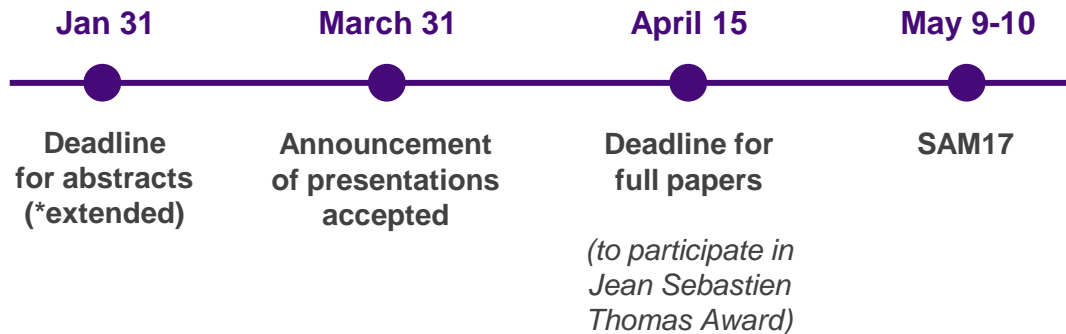
# Abstract submission

Proposals for presentations should be sent as abstracts by email to [sam.conference@arcelormittal.com](mailto:sam.conference@arcelormittal.com) by **January 31, 2023**.

The abstract template is attached.

Authors will be notified of abstract approval and selection as an oral presentation or a poster. Presentations will be posted online. It is also possible to submit articles, which would be peer-reviewed to be published by *Matériaux et Techniques (EDP Sciences)*.

## SAM17 timeline



# Jean-Sébastien Thomas Award

In memoriam of **Jean-Sébastien Thomas**, who contributed to the success of SAM conferences, ArcelorMittal created in 2015 the Jean-Sébastien Thomas Award and grants a 2,000€ reward to the authors of the best article submitted to SAM conferences.

To participate, full articles should be submitted by email to [sam.conference@arcelormittal.com](mailto:sam.conference@arcelormittal.com)



## Registration

To register, please fill in the online form [here](#).  
There is no registration fee.



## SAM Organizing Committee

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Merve Erakca, Sebastian Bautista, Manuel  
Baumann

### Knowledge and Innovation

Andrea Declich

### NTNU

Leiv Kolbeinsen

## Contact

### SAM Organizing Committee

Email: [sam.conference@arcelormittal.com](mailto:sam.conference@arcelormittal.com)

### Ayoung Jo (Ms.)

Email: [ayoung.jo@arcelormittal.com](mailto:ayoung.jo@arcelormittal.com)

Phone: +33 (0)3 87 70 43 31

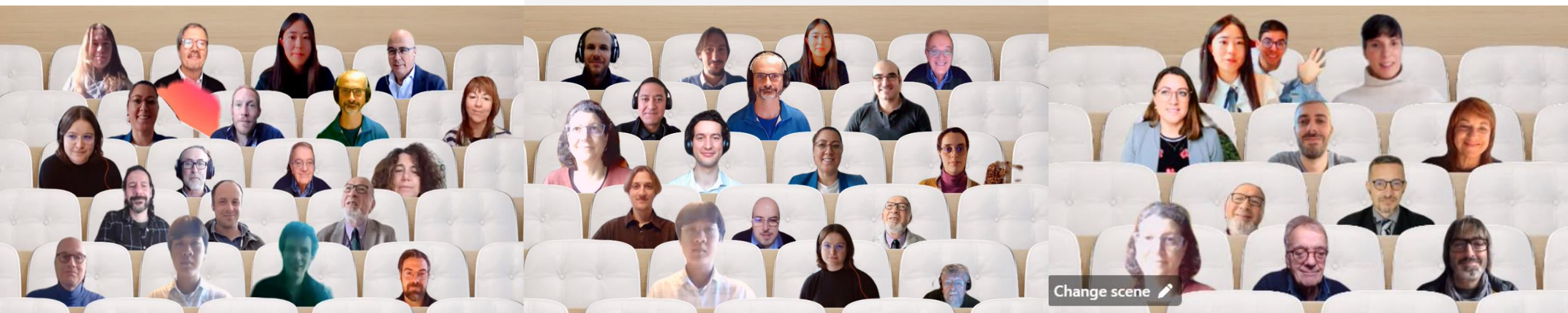
## Join the SAM group



<https://www.linkedin.com/company/society-and-materials-sam-international-conference/>



[https://www.itas.kit.edu/english/events\\_2023\\_sam17.php](https://www.itas.kit.edu/english/events_2023_sam17.php)



Change scene 