

FEMS EUROMAT23

03 - 07 Sep 2023 (Frankfurt)

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FEMS EUROMAT is the most important international congress in materials science and technology in Europe. It continues a successful congress series promoting the transfer of knowledge and the exchange of experience between academia and industry. **Submission deadline: 31 January 2023**

Area H: Materials for Circularity and Sustainability

H03: Recycling of Technology Materials and Composites from WEEE

The world is facing enormous challenges like broken supply chains, a short supply of raw materials, and an increasing amount of complex and, thus, hard to recycle WEEE. The symposium will deal with all aspects of WEEE recycling and value preserving technologies to recover even small amounts of rare, valuable, and critical materials. The detoxification of waste streams, as well as the improvement of yields and qualities of the recycling processes, shall be addressed. Furthermore, the symposium will cover modern recycling processes and analytical methods that can be applied to detect hazardous as well as valuable materials and sorting techniques. The potential of modern, fully automated multisensor systems in combination with artificial intelligence, material, and product databases will be presented as well as alternative approaches such as thermal and chemical recycling that also can be solutions to separate complex composite materials. It includes mitigation of energy use and reduction of emissions (CO₂) and all measures to optimize the material circularity index and environmental impact as a whole.

Symposium Organizer



Dr.-Ing. Mertol Göknelma
Izmir Institute of Technology



Dr. Barbara Güttler
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