

REProMag Poster Exhibition and networking opportunity for external with project partners

On 24 and 25 October at the Horizon 2020 booth organised by [FORAM Project](#)

REProMag Workshop: Resource Efficient Production of Rare-Earth Magnets – the EU Project REProMag

On 25 October, from 14:30 – 16:30 in Room 4

Chair: Carlo Burkhardt, OBE Ohnmacht & Baumgärtner GmbH & Co. KG

Description:

The Workshop will give an overview of the EU Project REProMag and its achievements. The main issue of this project is the development of an innovative resource efficient manufacturing route for Rare-Earth magnets that allows for the economically efficient production of net-shape magnetic parts with complex structures and geometrics while being 100% waste-free along the whole manufacturing chain. This new manufacturing route is called SDS process (Shaping, Debinding and Sintering).

In the frame of the workshop details on the SDS process based either on additive manufacturing or on injection molding will be presented, and the rare-earth problematic will be specifically addressed. First achievements (new pieces produced by the different production routes) will be shown as well as new machines/equipment

Agenda:

Info Session

- 1- Manufacturing processes for complex structures and geometries of magnets with efficient use of material - closing a gap between technology and market: Carlo Burkhardt (OBE)
- 2- RE-Magnets - Essential for future power generation, mobility and automation: Michael Krispin, (SIEMENS)
- 3- RE-Magnet recycling process - Vicky Mann (University of Birmingham)
- 4- Metal Injection Molding of recycled NdFeB: Carlo Burkhardt (OBE)
- 5- Lithography-based Metal Manufacturing: Gerald Mitteramskogler (Lithoz)
- 6- Material Extrusion Additive Manufacturing for Production of Metal Parts (University of Leoben)

Panel discussion on Rare Earth magnet production and circular economy with following speakers:

- Leonard Ansorge, RockLink GmbH (Düsseldorf, Germany)
- Stefan Möwius, BEC Gesellschaft für Produktmanagement mbH (Moers, Germany)
- Harald Sander-Röttcher, Sennheiser electronic GmbH & Co. KG (Wedemark, Germany)
- Farouk Tedjar, Grenoble INP LEPMI (Grenoble, France).
- Dr. Marcel Weil, ITAS Institute for Technology Assessment and System Analysis, KIT Karlsruhe Institute of Technology (Karlsruhe, Germany)

Showcasing: pieces and equipment developed and produced within REProMag & Posters.