



INVITATION TO 2nd CIRRUS COURSE

Circular Residue Usage in the Metallurgical Industry

20-24 May 2019

University of Oulu, Oulu, Finland

AFTER the great success of the 1st CIRRUS COURSE at Luleå University of Technology we cordially invite you to the 2nd CIRRUS Course at University of Oulu in Finland.

The course on **Circular Residue Usage in the Metallurgical Industry** is developed within the EIT RawMaterials and it is aimed for professionals in metallurgical industry, research institutes, PhD students, environmental agencies, as well as decision makers. Engineers new in the area can get a quick start at the new job positions, and experienced ones reach a broader knowledge on cross-sectorial opportunities.

The course includes a **Webinar** introducing the course and the participants and also giving a brief overview on secondary materials, their origin and characteristics as well as possible use. Moreover, possible case studies for training will be discussed and initialised. The webinar is followed by a face-to-face intensive course and a final follow seminar for case study presentations.

Knowledge on recirculation of residues that will be delivered covers secondary materials generated in different metallurgical industries as well as EOL products. Origin and characteristics of these materials in addition to the opportunities and the challenges in recycling to existing processes, e.g. steelmaking, ferroalloys and base metals extraction, will be discussed. Pre-treatment methods, agglomeration and specially designed processes for recycling will be also covered. Aspects on cross-sectorial possibilities, environmental issues and economy will be addressed.

Most welcome to sign up for the course via the link and feel free to distribute this invitation to your colleagues.

LANGUAGE & REGISTRATION FEE

The course will be given in English and it is free of charge. The number of participants is limited to 30.



SCHEDULE AND CONTENT

Wednesday 10th April 2019 (09:00-11:00 Central European Time)

Location: Webinar

Introduction to the course and participants, basic knowledge on secondary materials, their origin and characteristics as well as challenges and possibilities of recycling.

Monday 20 May- Friday 24 May 2019

Location: University of Oulu, Oulu, Finland

From the content: Further development on webinar topics, methodology for residual characterization, pre-treatment, agglomeration, recycling into ferrous, base metals, ferro-alloys, non-ferrous industry, special processes for recycling etc. Moreover, support to case studies with topics selected by participants.

Wednesday 25th September 2019- Follow-up Webinar

Location: Webinar

Presentations and discussion of case studies form course participants.

REGISTRATION

Last day for registration is 3rd April 2019. Register via <https://www.Swerim.se/en/calendar/cirrus2>

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PROJECT ORGANIZATIONS: The CIRRUS project is coordinated by Swerim with Luleå University of Technology, University of Oulu, KU Leuven and LKAB as partners and co-funded by EIT Raw Materials KIC & CAMM (Centre of Advanced Mineral & Metallurgy)

