EIT RawMaterials strives to educate the raw materials game-changers of the future, ensuring Europe cultivates a society of learners contributing to a strong and resilient EU raw materials base. Four domains of learning and education are addressed by EIT RawMaterials, namely:

- PhD Education
- Master Education
- Lifelong Learning
- Wider Society Learning

The RawMaterials Academy is the overarching brand and coordinating body of all the learning & education activities of the EIT RawMaterials.

Most EIT RawMaterials learning & education activities are carried out through innovative education projects launched via open Calls for Proposals with funded projects managed and implemented by the EIT RawMaterials partners. Additionally, the RawMaterials Academy supports partner universities in the EIT-Labelling of Master and PhD programmes as well as administers a number of centrally operated, strategic projects.

Activities across the entire ecosystem of learners – PhD students, Master students, industrial partners, professionals within the raw materials sector, policymakers, school pupils, Bachelor students and civil society – foster new pedagogical approaches to learning and teaching through the application of the Knowledge Triangle, linking critical knowledge and stakeholders in academia, industry and research. Resulting from this model is a de-siloing of raw materials disciplines and knowledge whereby learners obtain a holistic overview of the raw materials value chain complemented by robust innovation & entrepreneurial education.

EIT RawMaterials, initiated by the EIT European Institute of Innovation and Technology and funded by the European Commission, is the largest and strongest consortium in the raw materials sector worldwide. Its vision is a European Union where raw materials are a major strength. It unites over 100 partners – academic and research institutions as well as businesses – from more than 20 EU countries.
Automated Material Characterization by MLA

Mineral Liberation Analysis (MLA) is an automated material characterization technique based on scanning electron microscopy (SEM) image analysis coupled with energy dispersive X-ray spectroscopy. With this analysis technique almost every kind of solid material can be analyzed, regardless of whether the material is of natural or artificial origin. Examples for such materials are ores, rocks, minerals, processing products, recycling materials, environmentally relevant materials, metals, alloys, building materials, special glasses, and many more.

By using MLA technique you get valuable information about modal mineralogy, particle and mineral grain sizes, mineral association, mineral liberation and many other parameters important to improve your processes. As a consequence this can save you process costs, energy costs, and production costs.

Course description

The course has the following objectives and outcomes:

- fields of application of Mineral Liberation Analysis
- structure and outcomes of the MLA software
- evaluation of results parameters.

Format

The course is a combination of classroom lectures, a MLA lab session and practical sessions.

Course Dates

13th–15th June 2017

Course Contents

Module 1: Introduction into Automated Mineralogy
Module 2: Introduction into Mineral Liberation Analysis (MLA), MLA Software Suite
Module 3: MLA lab session
Module 4: MLA Data Processing
Module 5: Practical Sessions

Lecturers:

- Dr. Dirk Sandmann – ERZLABOR spin-off project
- Dipl.-Geol. Sabine Haser – TU Bergakademie Freiberg

Location

TU Bergakademie Freiberg
Krügerhaus
Schlossplatz 3
09599 Freiberg
Germany

Target Audience

If your business is in mineral exploration, mining, processing, beneficiation, aggregates industries, metal industry, special glass industry, environmental business, or oil & gas this course will be valuable for you.

Course fee

€ 1,500 per person, plus statutory VAT
EIT RawMaterials members: € 1,200 per person, plus statutory VAT