



Metal Recycling by ReCoMet

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Research Cooperation:

Experts joining together to perform quality research

As of November 2015, the Federal Ministry of Education and Research (BMBF) is funding the two year starting phase of ReCoMet, the Research Cooperation Metal Recycling. With ReCoMet, two highly ranked research entities are combining their forces to fill the gaps in the field of metal recycling of low grade or currently untreated sources:

- Department of Processing and Recycling (I.A.R.) of RWTH Aachen University, Germany
- Institute of Recycling Technology (IRT) of Technical University of Košice, Slovak Republic

Appealing values in metals:

ReCoMet will unlock resource potential in metal containing waste

For the establishment of a good recycling community in South-East Europe, it is important to highlight the economic benefits of recycling. The recycling of metals is a valuable starting point to establish circular economy thinking. To tackle the challenges in metal recycling an enhanced knowledge on mechanical treatment is critical; and this competence will be provided by I.A.R. – one of Europe's leading research entities on the field of mechanical treatment of waste streams. The joined forces with the partner IRT of Slovakia will enhance the mechanical treatment as a direct feedback from the metallurgical experts of IRT will lead to improved mechanical treatment and, of course, enhanced metallurgical treatments. With this cooperation more benefits for metal recyclers and raw materials industry can be provided.



Research in Germany


Land of Ideas

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Test infrastructure available: Use one of the most comprehensive laboratory options

Both entities can provide interested customers and potential project partners with deep knowledge in their designated fields. The extensively equipped laboratories offer the possibilities to carry out applied research. The I.A.R. technical facilities host one of Europe's largest laboratories for mechanical treatment where machines for crushing, sieving and sorting are available in laboratory and demonstrator scale. The metallurgical experts of IRT offer an extensive infrastructure for metallurgical processes and chemical analysis. Furthermore, IRT can provide a pilot scale plant for hydrometallurgical treatment which can easily be adjusted to special needs. Their extensively equipped chemical laboratory can determine the trial outputs.

By these means, we follow an integrated approach. Material systems are characterized, process chains are tailored accordingly and optimized in efficiency and holistic evaluation is conducted by modelling and combined technical, economic and environmental assessment.

If you are interested, we are happy to discuss opportunities of cooperation.



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