



International Round Table
on Materials Criticality



“How industry manages criticality”

3rd IRTC Round Table

TMS Annual Meeting, San Antonio, Texas

March 14, 2019

About the project

IRTC is an international “Round Table” project on approaches towards assessing materials criticality, taking place in the form of workshops at international conferences. The results are consecutively published in the form of joint scientific papers and a Roadmap on Criticality for authorities. The project shall advance the research in criticality assessment, foster international exchange and education in the topic, identify common ground and differences, and raise awareness towards materials criticality, especially in industry. It shall also lay the cornerstone for a long-lasting international network of internationally leading experts. Awareness towards materials criticality, and its crucial role for a circular economy, shall be raised by creating visibility at established conference with a diverse audience and high impact in research and industry.

IRTC Round Table at the TMS Annual Conference 2019

Two Round Table events have taken place in 2018: the first one in Vancouver, Canada, at the *Resources for Future Generations* Conference, on “How methodology determines what is critical”, and a second one in Tokyo at the EcoBalance conference on “Criticality and circular economy”.

The third Round Table will take place on March 14, 2019, at the TMS Annual Conference and Exhibition 2019 in San Antonio, Texas, on the topic of “How industry manages criticality”. The event aims at making the link to representatives from industry and integrate their views in the work of the Consortium. Invited talks in the morning will set the scene on the role of criticality from different perspectives. At the Round Table discussion in the afternoon – with Consortium partners and invited guests – these aspects will be carved out in more detail. In parallel, a survey will be conducted by the project that evaluates industry awareness towards criticality. The outcomes of the session, the Round Table discussion as well as the survey will inform the upcoming work within the project and set the cornerstone for a scientific publication on the topic that will be published in series with the Consortium’s previous publications.



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



RawMaterials
Connecting matter



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Information and contact

www.irtc.info

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Morning programme

Room 007C
Henry B. Gonzalez Convention Center

	Speaker	
09:00-09:10	Alessandra Hool , ESM Foundation	Welcome
09:10-09:30	Prof Roderick Eggert , Colorado School of Mines and the Critical Materials Institute, USA	Critical minerals and the US economy
09:30-09:50	Prof Nikolaos Michailidis , Aristotle University of Thessaloniki, GR	Raw materials for additive manufacturing
09:50-10:10	Prof Armin Reller , ESM Foundation	Assessing criticality over the supply chain: a competitive advantage for companies
10:10-10:30	Dr Min-Ha Lee , Korea Institute of Industrial Technology, KR	Securing critical materials supply for the Korean industry
<i>10:30-11:00</i>	<i>Coffee Break</i>	
11:00-11:20	Dr Christina Meskers , Umicore, BE	Critical raw materials – the industry perspective with focus on recycling
11:20-11:40	Dr James Goddin , Granta Design Ltd., GB	Raw materials data for companies
11:40-12:00	Prof David Jarvis , HIPTec AS, USA	Critical raw materials and environmental impact in the manufacturing sector



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Afternoon programme

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14:00-14:10	Alessandra Hool , ESM Foundation	The IRTC project
14:10-14:30	Dr Dieuwertje Schrijvers , University of Bordeaux	Outcomes of the survey on awareness towards criticality in industry
14:30-14:45	Marcus Berr , Empa, Switzerland Jair Santillan , University of Bordeaux, France	Presentation of CRM-related projects by IRTC travel grant awardees
14:45-16:00	Rod Eggert , Colorado School of Mines and the Critical Materials Institute Atsufumi Hirohata , University of York David Jarvis , HIPtec AS Christina Meskers , Umicore Guido Sonnemann , University of Bordeaux James Goddin , Granta Design Ltd Min-Ha Lee , Korean Institute of Technology Steven Young , University of Waterloo Armin Reller , ESM Foundation / University of Augsburg Jair Santillan , University of Bordeaux Layla van Ellen , Delft University of Technology Orlando Rios , Oak Ridge National Laboratory and Federation of European Materials Societies (FEMS) Moderators: Alessandra Hool and Dieuwertje Schrijvers	Round Table: How industry manages criticality
16:00-17:30	Further discussion with reception/Apéritif	

The event will be part of the REWAS (Recycling & Sustainability) symposium. It is supported by the European Federation of Materials Societies FEMS.