

Monday, 22 Oct	19:00	<b>Get Together Dinner</b>			
Tuesday, 23 Oct	08:30	<b>Reception + Coffee</b>		Café and Networking Space	
	9:00 - 10:30	<b>Sustainable Materials for Future Mobility</b>	Moderated by Roland Gauß (EIT RawMaterials)		
		Sustainable Materials for Future Mobility - The EIT RM Lighthouse The Commissions Strategic Plan on Batteries The International Energy Agency Hybrid & EV Technology Programme Materials for Batteries, Magnets, and E-Drives - Market needs Introduction to the Satellite Workshop "Materials by Design" Discussion	Gregor Brodt Patrice Millet Bert Witkamp Luis Tercero Raquel Lizarraga		BASF and EIT RawMaterials Board Member DG Grow Valuad and IEA Fraunhofer ISI KTH
	10:30 - 11:00	<b>Coffee Break</b>			
	11:00 - 12:30	<b>Battery Raw Materials: Exploration, Mining, Extraction, Recycling</b>	Moderated by Mark Saxon (Leading Edge Materials)		<b>Satellite Workshop Materials by Design</b> coordinated by KTH
		Battery metals from Finland Graphite - From raw to advanced materials Lithium from Portugal Battery recycling Discussion	Jani Kiuru Raffaele Gilardi David Archer Bjorn Hall		Finnish Minerals Group Imerys Graphite & Carbon Savannah Resources Stena Metall
	12:30 - 13:30	<b>Lunch</b>			
	13:30 - 15:00	<b>Advanced Battery Materials and Cells</b>	Moderated by Jean-François Perrin (Nanomakers)		
	Advanced cathode materials Porocarb - advanced anode materials in Li ion batteries Li metal anodes and solid state batteries The future of batteries Discussion	Fabrice Stassin Michael Grimm Stephen Tighe Kristina Edström	Umicore Heraeus Bühler Redex Uppsala University		
15:00 - 15:30	<b>Coffee Break</b>				
15:30 - 17:00	<b>Sustainable Batteries</b>	Moderated by Emma Nehrenheim (Northvolt)			
	How can we measure sustainability in the battery value chain? Batteries: a critical look to a sustainable supply of the materials Certification of raw materials What makes a sustainable battery? Discussion	Julia Poliscanova Jo Dewulf Lukas Förster Clémence Siret	Transport & Environment Ghent University DMT SAFT		
17:00 - 18:30	<b>Breakout sessions</b> 1. Raw Materials for Batteries: i) Cross Value Chain Alliances; ii) Demonstration Projects for RM Extraction and Processing Pitches: M. Popall, Fraunhofer ISC: European Lithium Institute; N.Meadows, European Metals: Lithium mining at Cinovec; M. Tesar, Pandion Partners: Lithium from mine tailings at Cinovec; J.Zimmermann, Fraunhofer IWKS: Battery recycling 2. Advanced Materials and Cells: i) Advanced Li ion batteries (Gen 3b); ii) all solid state batteries (Gen 4) M. Heijer, RGS Development: e-magy 3. Sustainable Batteries: i) Sustainable Sourcing; ii) Ecolabelling M. Saxon, Leading Edge Materials: Blockchain Technology in sourcing				
18:30 - 22:00	<b>Dinner</b>				
Wednesday, 24 Oct	09:00 - 10:30	<b>Rare Earths: Exploration, Mining, Extraction, Recycling</b>	Moderated by David Kennedy (Uni. Birmingham)	Café and Networking Space	
		Rare Earth made in Europe Sustainable REE supply chains Securing the supply chain of Rare-Earth Elements for Nd-Fe-B Global REE supply chains Discussion	Mark Saxon Alain Rollat Jürgen Gassmann Signe Kask		Leading Edge Materials Lynas Fraunhofer IWKS Neo Performance Materials
	10:30 - 11:00	<b>Coffee Break</b>			
	11:00 - 12:30	<b>High Performance Permanent Magnets</b>	Moderated by Oliver Gutfleisch (TU Darmstadt)		
		Advanced magnet materials made in Europe Casting of rare earth alloys High performance permanent magnets: options and challenges 3D printing of magnets Discussion	Matthias Katter Ian Higgins Sorana Luca Konstantin Skokov		Vacuumschmelze Less Common Metals CEA TU Darmstadt
	12:30 - 13:30	<b>Lunch</b>			
13:30 - 15:00	<b>Electric Drives and Magnetic Cooling</b>				
	Permanent magnets and e-drives Topological approach to free rare earth electrical motors. Permanent magnet synchronous machines Magnetic cooling Discussion	Gotthard Rieger Gaizka Ugalde Rosillo Jean-Marc Dubus Oliver Gutfleisch	Siemens Mondragon Valeo TU Darmstadt		
15:00 - 16:30	<b>Breakout sessions - workshop to integrate community</b> 1. Sourcing rare earth metals 2. High performance permanent magnets 3. E-drives T. Jezdinsky, European Copper Institute: ReFreeDrive				
	<b>Wrap up of entire Workshop</b>				