

International Virtual Workshop on CRM Innovations Frontiers

10 - 11 December 2020

Time: 10 - 17 CET; online

On-line event: https://www.enea.it/it/seguici/events/crsi_dec2020/international-virtual-workshop-on-crm-innovation-frontiers201d

Registration: https://connect.portici.enea.it/crm_dec2020/event/registration.html

The EIT RawMaterials is an international platform for innovation funded by the European Institute of Innovation and Technology (EIT). The EIT has created the Knowledge Innovation Communities (KIC), that aim to promote innovation and education in Europe in crucial sectors, supporting entrepreneurship and enhancing the passage of new ideas from the incubation phase to the market.

The EIT RawMaterials started at the end of 2014 and is particularly committed to addressing the global challenge of supplying raw materials in Europe, through programs and projects that aim to develop technology throughout the entire value chain of raw materials: from the exploration of resources, to the mining industry, from metallurgical processes to the replacement of critical or toxic or rare raw materials, from the recycling and reuse of end-of-life product materials to the design of products for the circular economy.

As part of regional development programs, the EIT RawMaterials has created the Regional Center South Italy (RCSI), a Hub located in the Italian Puglia Region and coordinated by ENEA, in order to increase the involvement of local ecosystems in the activities of KIC and its partnership. RCSI also aims at reaching new organizations and promote the participation of the most innovative industries and SMEs, as well as the involvement of prestigious universities and research centres in the area.

The two-days International Virtual Workshop on CRM Innovations Frontiers represents a real opportunity to know the latest trends of the innovation in the various aspects of the critical raw materials world from the perspective of companies, universities, research institutions and public administrations.

Agenda

Thursday, December 10th, 2020

10:00 – 11:00 **Opening and welcome**

10:00 Dario Della Sala (Director PROMAS - ENEA)

10:15 Luigi Ambrosio (Director IPCB - CNR)

10:30 Michele Penza (Coordinator of RCSI - ENEA)

10:45 Valeria Fascione (Council member for Research, Innovation and Start up - Campania Regional Government)

11:00 – 12:30 **Critical raw materials issues and initiatives in Europe**

- 11:00 Pier Luigi Franceschini (General Manager EIT RM Innovation Hub South)
- 11:20 Fabio Ferri (Education Manager EIT RM Innovation Hub South)
- 11:40 Constanze Veeh (European Commission Joint Research Centre) *“Critical Raw Materials in the EU Political Spotlight”*
- 12:00 Tina Benda (RIS Manager EIT RM Innovation Hub CLC East) *“Opportunities within the Regional Innovation Scheme (RIS)”*
- 12:20 Filippo Ammirati (Enterprise Europe Network - ENEA))

12:40 – 14:00 **Lunch break**

14:00 – 15:30 **Critical raw materials and processes – Electronics and Photonics**

- 14:00 Rita Faddoul (GenesInk) *“GenesInk: Enabling novel functionalities for consumer electronics markets”*
- 14:20 Paolo Vacca (SAES Getters Group) *“Sustainable zeolites for lifetime management in Electronics”*
- 14:40 Francesca Di Benedetto (ENEA - Brindisi) *“Sustainable thermoelectric materials for energy harvesting applications”*
- 15:00 Maria Lucia Protopapa (ENEA - Brindisi) *“Compositional structure recognition of waste PV panels: challenges and proposals”*

15:30 – 17:00 **Critical raw materials and processes - Automotive and Aerospace**

- 15:30 Claudio Voto (DAC - Campania Aerospace District) *“Future trends of materials and processes in Aeronautics”*
- 15:50 Paolo Ferro (UniPD) *“How to apply mitigating actions against critical raw materials issues in mechanical design”*
- 16:10 Andy Clifton (Rolls Royce)
- 16:30 Nello Li Pira (Centro Ricerche FIAT)

Friday, December 11th, 2020

09:45 – 10:00 **Day two opening**

10:00 – 11:30 **Critical raw materials and processes - Mechanics, Transportations, Plastics and Paper**

10:00 Matyas Torok (Bay Zoltan) *"Recovery of secondary raw materials from red mud"*

10:20 Iakovos Yakoumis (Monolithos Ltd.) *"Circular Economy and Zero Waste Aspects of CRM Production"*

10:40 Eugenio Amendola (IPCB/CNR) *"Recyclable and self-healing epoxy composites"*

11:00 Maria Emanuela Errico (IPCB/CNR) *"High energy mechanical treatment as a versatile technology for the valorization of post-consumer plastics"*

11:30 – 13:00 **Critical raw materials and processes - Energy**

11:30 María Jesús Lázaro Elorri (CSIC) *"Critical raw materials in Electrochemical devices for the conversion and storage of energy"*

11:50 Alessandro Santini (Gruppo Fiori) *"End of Life Vehicles (ELVs) recycling at Gruppo Fiori"*

12:00 Cumar Sivakanesar Luxsacumar (Nanopow) *"Crystalline Nano-Silicon Powder for anodes in Li-ion batteries"*

12:20 Federico Vitali (FAAM Research Center) *"FAAM - SERI Industrial commitment in the European Battery Alliance"*

13:00 – 14:30 **Lunch break**

14:30 – 17:00 **Raw materials: circular economy in Campania and RCSI regions**

14:30 Luigi Nicolais (Materias) *"Plastics: enemies or friends?"*

14:50 Per Luigi Franceschini (EIT RM Innovation Hub South)

15:10 Claudia Florio (Stazione Sperimentale per l'industria delle Pelli e delle Materie Concianti) *"Circular Solutions for Leather Industry"*

15:30 Vincenzo Benessere (ISUSCHEM) *"Fatty acids derived chemicals from waste food oils"*

15:50 Fulvio De Iuliis (Cartesar)

16:10 Attilio Palumbo (Legambiente)

16:30 Monica Bianco (Circular Research Foundation) *"The BioLand Project: research challenges beyond the current technological frontier"*

17:00 **Closing remarks and farewell**

Further Information: The participation is free of charge. After registration the participants will receive a link CONNECT to follow online the scheduled events.

Registration: The free of charge registration should be applied to link:

https://www.enea.it/it/seguici/events/crsi_dec2020/international-virtual-workshop-on-crm-innovation-frontiers201d

Language: English is the official language.

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