





Raw Elements Substitution in Electronic and optoelectronic Technologies

Recognized as a Raw Materials Commitment (RMC) by the High Level Steering Group of the EIP.

Presents:

1st WORKSHOP on:

"Substitution of Critical Raw Elements: synthesis, characterization and processing of new Advanced Materials"



Cagliari (Italy) 9-10 April 2015 Hotel Regina Margherita

The workshop aims to cover the most important application areas in sectors related to the electronic and lighting industries for which CRMs are key components.

The workshop intend to be the right place to discuss in order to:

- Create a common state of the art document identifying new criticisms.
- Elaborate a roadmap and time-line actions for substitution of CRM in electronic devices.

The main scientific areas include:

- Optoelectronic Advanced Materials
 - Transparent conductive materials
 - Displays
 - Phosphors
 - Light devices
- Advanced Materials for Industries
 - Catalysis
- Advanced Materials for Medical applications
 - o Biosensors
 - Drug delivery

Web page: http://reset.dsf.unica.it/; Contact: reset@dsf.unica.it;

Workshop on Critical Raw Elements Substitution in Electronic and optoelectronic technologies: Agenda					
9 - April					
09:30	Opening session				
10:00	Santiago Cuesta	ICCRAM	Research and Enterprise in the field of Critical Raw Materials. The road by Castilla y Leon.		
10:40	Dario Della Sala	ENEA	THE STARTUP OF THE EUROPEAN KNOWLEDGE INNOVATION COMMUNITY ON RAW MATERIALS.		
11:20	Break				
11:40	Pier Carlo Ricci	UNICA	Rare Earth free phosphors for LED devices		
12:20	Mauro Fasoli	UNIMIB	Substituting critical elements in luminescent materials: a spectroscopic potential approach		
13:00	Lunch				
14:30	Maria Luisa Grilli	ENEA	CRMs-free p and n type transparent conductors		
15:10	Nadhira Laidani	FBK	Synthesis processes and characterization of TiO₂ and ZnO films for optical and transparent electrodes		
			applications		
15:50	Break				
16:10	Angela Rizzi	UGOE	Epitaxial Growth of GaN-based nanostructures		
16:50	Sönke Fündling	TUBS	Technology and applications for 3D GaN		
17:30	Networking Cockto	ail			

10 - April				
09:00	Christophe Detavernier	UGENT	Coating of powders by atomic layer deposition	
09:40	Gianluca Gulleri	STmicroelectronics	Research and Manufacturing: which is the priority?	
10:20	Break			
10:40	MariaLaura Lucariello	Sardegna Ricerche	Critical Raw Materials: a review on their use in fuel cells and hydrogen storage	
11:20	Claudio Melis	UNICA	Atomistic Modeling of nanostructured materials for energy and biomedical applications.	
12:00	Round Table			
13:00	Lunch			
14:30	Summaring discussion and concluding Remarks			
16:30	End of the Workshop			

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