



European
Commission

EU-US-Japan

Trilateral Conference on Critical Materials



29 November 2016



The 6th Trilateral EU-US-Japan Conference on Critical Materials

Strategies for Sustainable Supply of Critical Raw Materials

November 29th, 2016

Venue

BREYDEL – Auditorium, 45 Avenue d'Auderghem, Brussels, Belgium

"On invitation only"

8:30 – 9:00 Registration

9:00 – 09:05 Welcome by, DG GROW, European Commission – **Mattia PELLEGRINI**, Head of Unit, Resource Efficiency and Raw Materials

Opening Remarks

09:05 – 09:10 US – **Dr. Mark JOHNSON**, Director, DOE Advanced Manufacturing Office

09:10 – 09:15 Japan – **Mr. Fumikazu SATO**, Deputy Director-General, Manufacturing Industries Bureau, METI

09:15 – 09:20 EU – **Gwenole COZIGOU**, Director Industrial Transformation and Advanced Value Chains, European Commission.

Session 1 Criticality and Risks Analysis
Eurogeosurveys

Luca Demicheli

09:20 – 09:40 US: **Mr. Devin IMHOLTE**, Idaho National Laboratory/Critical Materials Institute – "Supply Chain and Risk Analysis of Critical Materials R&D"

09:40 – 10:00 Japan: **Dr. Mitsutaka MATSUMOTO**, National Institute of Advanced Industrial Science and Technology (AIST) – "Criticality assessment and R&D for circulation of critical materials"

10:00 – 10:20 EU: **Pr. Gian Andrea BLENGINI**, Joint Research Centre, Sustainable Resources Directorate – "Changing policy needs for criticality assessment in the EU and the contribution of the Raw Materials Scoreboard"

10:20 – 10:30 Q&A and Summary

10:30 – 10:50 Coffee Break

Session 2	Novel Materials by Design	Duane Johnson, AMES Laboratory
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- 10:50 – 11:10 Japan: **Pr. Kazuyuki KURODA**, Waseda University – "The Promotion of Strategic Basic Research on "Element Strategy" in Japan towards Sustainable Society"
- 11:10 – 11:30 EU: **Pr. Fotis KATSAROS**, Inn Demokritos – "Development of novel, high Performance hybrid TWV/GPF Automotive after treatment systems by rational design: substitution of PGMs and Rare earth materials"
- 11:30 – 11:50 US: **Dr. Greg Mulholland**, CITRINE – "Materials Informatics: Artificial Intelligence Driven Materials Development and Optimization"
- 11:50 – 12:15 Q&A and Summary

12:15 – 14:00: Lunch (Poster Session)

Session 3	Circular Economy	Mitsutaka Matsumoto National Institute of Advanced Industrial Science and Technology (AIST)
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- 14:00 – 14:20 EU: **Mr. Pascal LEROY**, WEEEFForum, "Prospecting secondary raw materials in the urban mine and mining wastes"
- 14:20 – 14:40 US: **Dr. Ikenna NLEBEDIM**, Ames Laboratory/Critical Materials Institute – "Recovering the Embodied Energy in Waste Permanent Magnets through Recycling"
- 14:40 – 15:00 Japan: **Prof. Takashi NAKAMURA**, Tohoku University – "Novel Recycling Processing for e-scrap Containing Critical Metals"
- 15:00 – 15:10 Q&A and Summary

15:10 – 15:30 Coffee Break

Session 4	Capacity Building	Karen Hanghøj EIT RawMaterials GmbH
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- 15:30 – 15:50 US: **Mr. Colin Nexhip**, Rio Tinto – "New approaches to recovering critical minerals and recycling e-waste in the copper smelting process: Limiting waste, increasing efficiency and creating value"
- 15:50 – 16:10 Japan: **Prof. Shinji HIRAI**, Muroran Institute of Technology – "Research Center for Environmentally Friendly Materials Engineering and Studies for Progressive Use of Rare Earths"

16:10 – 16:30 EU: **Dr. Stéphane BOURG**, CEA Marcoule – "Initiatives for improving the sustainable supply of critical materials"

16:30 – 16:40 Q&A and Summary

Closing

16:40 – 16:45 EU: **Mrs Maria Cristina RUSSO**, Director International Cooperation DG-RTD

16:45 – 17:00 US: **Dr. Mark JOHNSON**, Director, DOE Advanced Manufacturing Office

17:00 – 17:05 Japan: **Mr. Fumikazu SATO**, Deputy Director-General, Manufacturing Industries Bureau, METI

17:15 – 19:00 Poster Session + Networking Cocktail
