

21
Sc
44.96

39
Y
88.91

Ln

57
La
138.9

58
Ce
140.1

59
Pr
140.9

60
Nd
144.2

61
Pm
147

62
Sm
150.4

63
Eu
152

64
Gd
157.3

65
Tb
158.9

66
Dy
162.5

67
Ho
164.9

68
Er
167.3

69
Tm
168.9

70
Yb
173

71
Lu
175

What does the future hold for REE?

3RD CONFERENCE ON
European Rare Earth Resources

6-9 OCT 2020 VIRTUAL CONFERENCE

PROGRAMME

I Plenary Session

Moderator:
Efthymios Balomenos,
 Mytilineos SA,
 Metallurgy BU

- 11:00–11:15** **George Barakos**
KEY NOTE: Production of Rare Earth Elements in Europe: Dreams, Misbeliefs, Milestones and Realities
- 11:15–11:30** **Kathryn Goodenough**
KEY NOTE: Primary Rare Earth element Resources: a Decade of Research and Development
- 11:30–11:45** **Dimitrios Biliouris**
KEY NOTE: COVID-19 and the mining sector, challenges and opportunities for Rare Earths
- 11:45–12:00** **Damien Krebs**
KEY NOTE: Low Cost, Large and Sustainable REEs from Greenland
- 12:00–12:15** **Håkon Breda-Ruud**
KEY NOTE: REE Minerals AS—the Only Proven Exploitable LREE-resource in Western Europe
- 12:15–12:30** **Peter J. Cashin**
KEY NOTE: Building a Global Scandium Supply Chain: Crater Lake Project, Quebec, Canada
- 12:30–12:45** **Niels Verbaan**
KEY NOTE: The Extraction and Refining of Scandium from NIOCORP'S Elk Creed Deposit
- 12:45–13:00** **Efthymios Balomenos**
KEY NOTE: The SCALE pilot for extraction of Sc from Bauxite Residue
- 13:00–13:15** **Q&A**
- 13:15–13:30** **Break**

II European REE Concentrates

Moderator:
Christian Adam,
 BAM Bundesanstalt für
 Materialforschung und
 -prüfung

- 13:30–13:45** **Marion Louvel**
ORAL PRESENTATION: Experimental investigation of magmatic and hydrothermal REE, Nb, Ta enrichment processes
- 13:45–14:00** **Sofia Petushok**
ORAL PRESENTATION: Quantitative mineralogy in abating beneficiation of Greek placer sands for the recovery of REE-minerals
- 14:00–14:15** **Egidio Marino**
ORAL PRESENTATION: Potentially Economic REE in Fe-Mn Crust Deposits from the Canary Island Seamount Province: High Resolution Analysis to Identify the Metl Bearing Minerals
- 14:15–14:22** **Yiğit Altinsel**
SHORT ORAL: Pre-Concentration of Scandium Contained in Serpentine by Falcon Concentrator

III European Secondary REE Resources

Moderator:
Christian Adam,
 BAM Bundesanstalt für
 Materialforschung und
 -prüfung

- 14:22–14:37** **Marie Gentzmann**
ORAL PRESENTATION: Investigation and comparison of scandium species in different European bauxite residues by combination of novel analytical tools
- 14:37–14:52** **Franziska Klimpel**
ORAL PRESENTATION: Industrial Garnet Sand as a Potential Secondary Resource for Scandium in Europe
- 14:52–15:07** **Ayşe Yüksesdağ**
SHORT ORAL: A Study to Determine the REE Potential of Waste and Waste water Originating from Turkey for the Future
- 15:07–15:14** **Nenad Tomšić**
SHORT ORAL: REE Potential of Bauxite-related Resources in the Esee Region: Focus to Croatia
- 15:14–15:30** **Q&A**

IV Sc Extraction from Industrial Residues

Moderator:
Marcus Lenz,
 Fachhochschule
 Nordwestschweiz
 FHNW

11:00-11:15	Ghazaleh Nazari KEY NOTE: Recovery of Sc from Ti Tailing Solution using II-VI SIR Technology
11:15-11:30	Sebastian Hedwig ORAL PRESENTATION: Towards the first recovery of scandium from waste acid: pilot-scale nanofiltration
11:30-11:45	Konstantinos Hatzilyberis ORAL PRESENTATION: Chemically Optimized Leaching with Mineral Acids of Bauxite Residue for Sc Recovery
11:45-12:00	Elena Mikelli ORAL PRESENTATION: Utilizing task-specific ionic liquids for selective leaching and refining of Sc from Bauxite Residue
12:00-12:15	Kyriaki Kiskira ORAL PRESENTATION: Use of Different Microbial Cultures for Bioleaching of Scandium from Bauxite Residue
12:15-12:30	Edward Peters ORAL PRESENTATION: Crystallization of a Scandium Phase in the Valorization of Metallurgical Waste Streams
12:30-12:45	Anastasia Pilichou SHORT ORAL: Extraction behavior of REEs compared on four different Bauxite Residues
12:45-13:00	Lamprini-Areti Tsakanika SHORT ORAL: Comparison Study of Sc Extraction from Bauxite Residue Using Phosphoric and Sulphuric Acid
13:00-13:15	Q&A
13:15-13:30	Break

V REE Processing

Moderator:
Srecko Stopic,
 RWTH Aachen University

13:30-13:45	Niels Verbaan KEY NOTE: The Development of Search Minerals' Direct Extraction Technology for the Recovery of REE from its Critical REE District in SE LABRADOR
13:45-14:00	Kgomotso Maluleke ORAL PRESENTATION: Sulphation Roasting and Leaching for the Selective Extraction of Light REEs from various South African Resources
14:00-14:15	Ani Vardanyan ORAL PRESENTATION: Mesoporous Silica Sorbents for Adsorption and Separation of REE
14:15-14:30	Georgiana A. Moldoveanu ORAL PRESENTATION: Chelation-assisted ion-exchange leaching of rare earths
14:30-14:45	Vitalis Chipawke ORAL PRESENTATION: Extraction and Characterisation of Rare-earth Oxides from Titaniferous and Monazite Concentrates
14:45-15:00	Santeri Kurkinen ORAL PRESENTATION: Rare Earth Element Separation from Phosphogypsum with of Ion Exchange and Biodegradable Eluents
15:50-15:30	Q&A

VI REE Metal Production

Moderator:
Arne Ratvik,
SINTEF

11:00–11:20	Ana Maria Martinez KEY NOTE: Production of Al-Sc alloy by electrolysis in cryolite melt using Sc2O3 feed. Results obtained in a large-scale laboratory cell
11:20–11:35	Samuel Senanu ORAL PRESENTATION: Dissolution kinetics of Neodymium and Praseodymium oxides in a 50-50 mol% NdF3-LiF Melt using a CCD Graphite Probe and LECO Analysis
11:35–11:50	Dominic Feldhaus ORAL PRESENTATION: Stabilisation of Neodymium and Praseodymium molten salt electrolysis to avoid unwanted side reactions
11:50–12:05	Frederic Brinkmann ORAL PRESENTATION: In-situ Extraction of Al-Sc by Metallurgy via Vacuum Induction Melting
12:05–12:20	Dimitrios Panias ORAL PRESENTATION: Electrodeposition of Scandium from an Ionic Liquid Solution
12:20–12:27	Boyan Iliev SHORT ORAL: Metal Deposition from Ionic Liquids for Surface Coatings
12:27–12:42	Srecko Stopic ORAL PRESENTATION: Synthesis and Characterisation of Y2O3:Eu/Ag powders
12:42–12:57	Q&A
12:57–13:15	Break

VII EOL REE Recycling

Moderator:
Efthymios Balomenos,
Mytilineos SA,
Metallurgy BU

13:15–13:30	Bengi Yagmurlu ORAL PRESENTATION: Innovative Scandium Recovery Method from Metallic End Life Products
13:30–13:45	Anna-Lisa Bachmann ORAL PRESENTATION: Recovery of critical raw materials from production rejects of the special glass industry by means of gas phase reaction
13:45–14:00	Gisele Azimi ORAL PRESENTATION: Recycling of Neodymium, Dysprosium, and Praseodymium from End-of-life NdFeB Magnets
14:00–14:15	Siiri Perämäki ORAL PRESENTATION: Recovery of Rare Earth Elements from Neodymium Magnet Waste Using Simultaneous Leaching and Precipitation with Carboxylic Acids

VIII Impacts from REE processing

Moderator:
Efthymios Balomenos,
Mytilineos SA,
Metallurgy BU

14:15–14:30	Martin Watson ORAL PRESENTATION: Designing Differentiated Approaches to Community Outreach and Social Acceptance: Lessons from the SECREETS Project
14:30–14:45	Viktória Feigl ORAL PRESENTATION: Ecotoxicity of Residues from the Leaching Process of Bauxite Residue for Scandium Production
14:45–14:52	Ildikó Fekete-Kertész SHORT ORAL: Ecotoxicity Assessment of Nanofiltration Products as the First Step of Scandium Production from Titanium Dioxide Production Waste
14:52–14:59	Emese Vaszita SHORT ORAL: Qualitative Assessment of the Ecotoxicological Effects of Residues Generated in Scandium Production Technologies
14:59–15:14	Ole S. Kjos ORAL PRESENTATION: Gaseous emissions during rare earth electrolysis
15:14–15:30	Q&A

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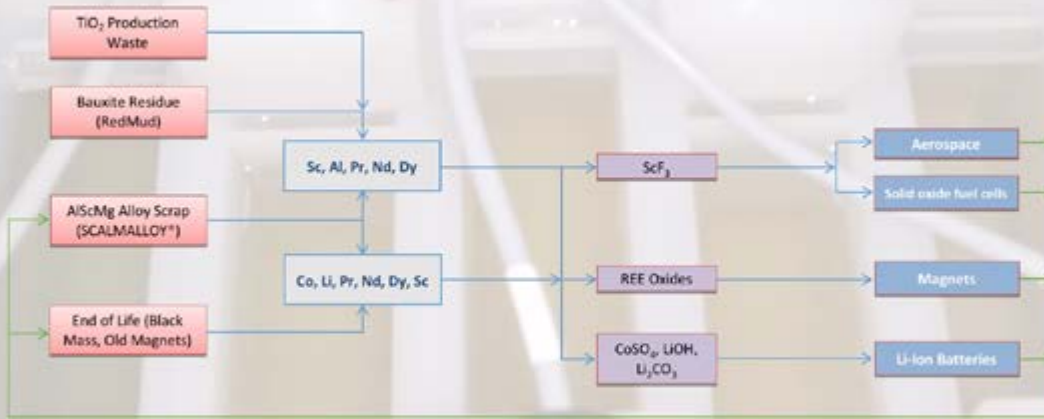


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- Long-term off-take agreements provide security of sales



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Refined Alumina Annual Capacity

820 ktn