

RETA Overview

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April 2, 2014



What is RETA?

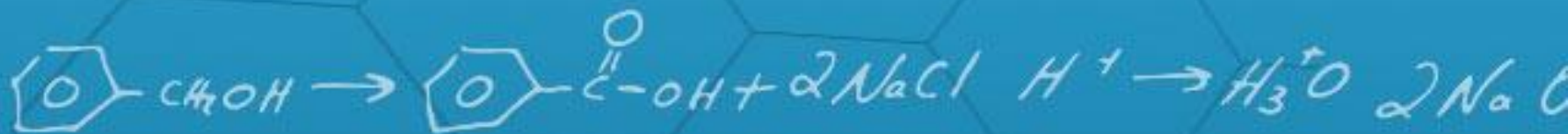
- RETA is an association of industry and research institutions that came together at the American Chemistry Council to support the growth and diversification of the REE industry and to promote education on REEs and the technologies that rely upon them.
- RETA is a global group (multi-national corporations, world-renowned researchers) devoted to developing the world's most extensive REE network.
- RETA's industry members are producers, processors, users and recyclers of REEs.
- RETA's research institution members include some of the leading academics in the field.



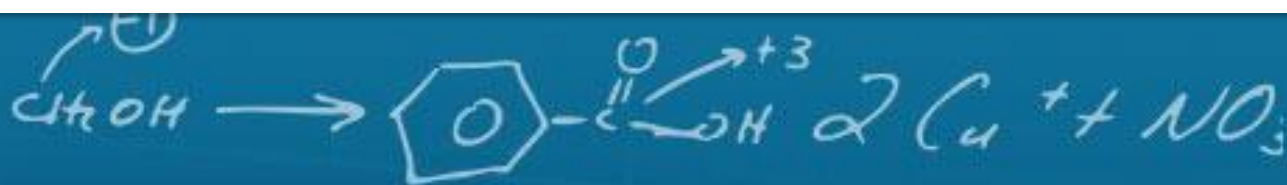
RETA's Primary Objectives

- ✓ Support the growth and diversification of the rare earth sector
- ✓ Serve as a recognized and respected voice of the rare earth sector
- ✓ Facilitate research and development that supports the growth of rare earth technology and products
- ✓ Address any health, safety, security or environmental issues relating to the production, transportation or use of rare earth elements.





RETA Members



57 La 138.9055	58 Ce 140.116	59 Pr 140.50765	60 Nd 144.24	61 Pm	62 Sm
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REE Mining and Processing

Extracting REEs
and processing
them into inter-
mediate RE
products

- Avalon Rare Metals
 - Molycorp
 - Rare Element Resources
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- Global Tungsten & Powders
- ReNew Rare Earth, Inc.
- Solvay
- WR Grace

Manufacturing with REEs

- Arnold Magnetic Technologies
- Ford Motor Company
- General Electric
- Knowles Electronics



REEs are used in
a staggering array
of manufactured
products.



REE Research



Cutting-edge
Research

- Colorado School of Mines
 - Iowa State University
 - Montana Tech
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Why Examine the Economic Impacts of the REE Industry?

The Rare Earth industry is critical to the North American economy:

- Billions of individual products from a myriad of product lines contain REEs.
 - E.g., phones, computers, automobiles, lighting, audio equipment, etc.
- These elements help many technologies perform with reduced weight, reduced emissions and energy consumption; or enhanced performance.
- They are vital to many modern industries including clean energy, chemicals, consumer electronics, transportation, health care, aviation, and defense.
 - DOE's Critical Materials Strategy concluded that "supply challenges for five rare earth metals (dysprosium, neodymium, terbium, europium and yttrium) may affect clean energy technology deployment in the years ahead".
- Therefore, addressing the growth and diversification of the rare earth sector is critical to our economy.

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RARE EARTH

TECHNOLOGY ALLIANCE

www.RareEarthTechAlliance.com