

APPENDIX C

This appendix is intended to offer additional information on resources for the critical materials exhibit. Also included are additional vendors and resources for building a well-informed display for the critical materials. Although this list is not exhaustive, it is widely inclusive; hopefully, these resources will assist those who are planning or already building such a display.

CM/REE Exhibit How-To Links

This Critical Materials Exhibit information: <https://cmi.ameslab.gov/about/education/resources>

The Earth Science Museum built a display for the Tucson Gem and Mineral Show, showcasing minerals and elements used in smartphones. Link to video:

<https://www.facebook.com/video.php?v=10153115606538035>

This photographer provides images of REE-metals on Wikipedia:

<http://commons.wikimedia.org/wiki/User:Alchemist-hp>

Rare Earths on display in the Inner Mongolia Autonomous Region Museum, Hohhot, China

<http://clas.berkeley.edu/research/research-tilling-rare-earth>

Recommended Exhibit Case Vendors:

Blue Goose Inc. builds high-quality displays, <http://www.bluegooseinc.net/>.

Graham Sutton is an excellent contact for lighting fixtures and cases. Contact him for inquires and a price list. Email: graham_s2002@yahoo.com or call: (720-318-8933)

Kevin D. Shaw, owner of Great Circle Promotions, www.greatcirclepromotions.com, offers support and management for trade show exhibits.

Tucson Store Fixtures sells and rents display cases,

http://www.tucsonstorefixtures.com/default.aspx?catname=Fiber%20Optic%20Display%20Case&catid=1086&cat_vp=1114/1086 .

Dynamic Events Denver, <http://www.dynamiceventsdenver.com/>, also rents cases made by R&R Showcases, <http://www.rrshowcases.com/products.html>.

Additional Exhibit Case Vendors:

<http://www.casewerks.com/museums/>

<http://zonedisplaycases.com/>

<http://guenschel.com/hgi/>

<http://www.ww-pedestals.com/>

<http://www.williamsminerals.com/cabinetintro.html>

Recommended Mineral Specimen Resources:

The website, <http://www.minfind.com/>, is an excellent resource for scouring the internet in search of mineral specimen.

Ask your geologist colleagues if they have minerals or ore samples which they would like to donate, loan, or sell.

Seek out gem and mineral shows. The website, <http://www.xpopress.com/>, can direct you to larger shows. Your local mineral clubs will have more information on public shows to visit or dealers to contact.

Some reputable dealers we have worked with on this project include:

Collectors Edge Minerals, <http://www.collectorsedge.com/>

Crystal Classics, <http://www.crystalclassicsltd.co.uk/>

Khyber Minerals, <http://www.khyberminerals.com/>

Persson Rare Minerals, <http://perssonrareminerals.com/>

John Betts Fine Minerals, <http://www.johnbetts-fineminerals.com/>

Recommended Chemical Vendors:

Fisher Scientific, <https://www.fishersci.com/us/en/home.html>, offers a plethora of chemicals and supplies.

Sigma-Aldrich, <http://www.sigmaaldrich.com/technical-service-home/product-catalog.html>.

Additional Chemical Vendors:

Some other companies include HEFA Rare Earths, <http://www.baotou-rareearth.com/>

Metallium, Inc. is a source for REE-metals

<http://www.elementsales.com/>

Product Vendors

Primus Windpower, <http://primuswindpower.com/>

Rattlesnake Magnets, Dale Young, dysedona@earthlink.net

Apex Magnets, www.apexmagnets.com

Bearing Ball Store, www.bearingballstore.com

Best Buy, www.bestbuy.com

Additional Resources on Critical Materials

U.S. Department of Energy: <http://www.energy.gov/articles/top-10-things-you-didn-t-know-about-critical-materials>

CMI: <https://cmi.ameslab.gov/>

USGS: <http://minerals.usgs.gov/east/critical/index.html>