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**Maria Zack\*** (mzack@pointloma.edu), MICS Department, Point Loma Nazarene University, 3900 Lomaland Drive, San Diego, CA 92106. *Where Did They Learn That? Mathematical Knowledge in 18th Century Portugal.*

In 1750's, the mathematics taught at the universities in Portugal was much less advanced than what was being taught in neighboring countries. However, there were traces of sophisticated ideas from the mathematics of materials evidenced in Portuguese buildings, particularly those erected after the 1755 earthquake the leveled Lisbon. These buildings show evidence of seismic engineering. This talk discusses the role that manuscript material used in military engineering schools may have played in transmitting mathematical information from francophone Europe to Portugal. The author had been working with a little-known 1742 manuscript of a Portuguese translation of a French engineering text written by Belidor. This manuscript appears to provide one of the "missing links" in explaining how the mathematics of materials became known in Portugal well before the 1772 reformation of the mathematics curriculum taught in Portuguese universities. (Received September 17, 2017)