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Sarah Stengle* (stenglesarah@centurylink.net) and **Rebekah Dupont**. *Aesthetics and motivating principles: comparing mathematical art to contemporary art*. Preliminary report.

Using images from the history of mathematical art and recent contemporary art, this talk will address aesthetic questions, as well as the notion of the anti-aesthetic. Non-practitioners often have a limited view of both fields. For example, non-mathematicians may think mathematicians are not creative because, in their experience, there is one true pre-determined solution. Similarly, non-artists often think that the goal of an artist is simply to create a universally agreed-upon beauty. The human practice of both these disciplines is often process-oriented, wherein the product is a string of related results continually refined through the process of working on them. The notion of absolute solutions in either discipline can be philosophically problematic. The talk will touch on the writings of Bertrand Russell, Alfred North Whitehead, and Elaine Scarry, and will focus primarily on comparing mathematical art to contemporary art. (Received September 16, 2014)