1035-N1-1727   **Reza Sarhangi*** (`rsarhangi@towson.edu`), Department of Mathematics, Towson University, Towson, MD 21252. *Some Historical Geometric Constructions and their Arts.*

Geometric constructions and the logic behind of the taken steps bring excitements to us while trying to justify the steps to reach to a conclusion. Geometric constructions have formed a substantial part of mathematics trainings of mathematicians throughout human life. Nevertheless, we are witnessing a lack of attention to the impertinence of synthetic geometry and the role of axiomatic system in shaping our understanding of mathematics in colleges and universities. In fact, a simple survey reveals that a large number of schools offer mathematics undergraduate curriculum without geometry or keep it as an option along with some other traditional mathematics courses. Nowadays students may obtain a bachelor in mathematics in some tracks and not take geometry. The goal of this article is to explore the mathematics ideas in three presented artwork plates at the 2008 AMS-MAA Joint Meeting, and gives some historical backgrounds in this regard. The hope is by visual and artistic presentations of such constructions we promote the importance of geometry in shaping our education. We hope such activities encourage schools and academia to bring back the subject of geometry to their center of mathematics education. (Received September 20, 2007)