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**Rebecca Plassmann\*** (rplassmann@cocc.edu), Central Oregon Community College, 2600 NW College Way, Bend, OR 97701. *Using Knitting To Construct Seamless Regular and Semi-Regular Polyhedra.*

In this presentation, I will describe the seamless construction of the five regular (and some of the semi-regular) polyhedra using knitting. Each of these models illustrates the three dimensional object falling through a plane and therefore revealing its structure in a series of polygonal cross sections. Each of the polyhedra has a different symmetry, and therefore a different preferred method of construction. For instance, the icosahedron is most symmetrical, and therefore easiest to knit, if constructed from vertex to vertex, while its dual, the dodecahedron, is most easily constructed from the center of one face to the center of the opposite face. (Received September 18, 2013)