This talk will examine the mathematical ideas and history of Dynamic Symmetry, a geometric approach to design invented by Jay Hambridge. Dynamic symmetry was popular in the 1920s and 30s, inspiring artists and art educators, as well as math teachers and student math clubs. We will discuss Hambridge’s fascination with root rectangles and their relationship to the golden ratio. We will look at the works of George Bellows and Jose Orozco whose paintings were organized using Hambridge’s ideas. And we will see how Hambridge’s geometric constructions lead to interesting mathematical problems for the contemporary mathematics classroom. (Received September 16, 2019)