Let $D_{2n}$ denote the dihedral group of order $2n$, where $n$ is an integer greater than 3. In this talk we build upon the findings of Haggard and McCarthy who, for certain values of $n$, each produced a vertex minimal graph whose automorphism group is isomorphic to $D_{2n}$. Specifically, Haggard considered the situation where $\frac{n}{2}$ or $n$ is a power of a prime number and McCarthy investigated the case when $n$ is not divisible by 2, 3 nor 5. Here we construct a vertex minimal graph whose automorphism group is isomorphic to $D_{2n}$ where $n$ is not divisible by 4. These results provide a new geometric interpretation of the dihedral group. (Received September 20, 2016)