I will describe on-going work with M. Vancliff on skew versions of Clifford algebras. Motivated by results of Le Bruyn, we previously introduced N-graded skew Clifford algebras and showed how an associated geometry could be used to produce several families of quadratic Artin-Schelter regular algebras. More recently, we have defined a family of algebras as a skew generalization of the classical Clifford algebras. I will describe how these new algebras differ from the classical model, and discuss connections with the N-graded skew Clifford algebras. (Received June 30, 2016)