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Thomas Cassidy and **Michaela Vancliff*** (vancliff@uta.edu), Math Dept, Box 19408,
University of Texas at Arlington, Arlington, TX 76019-0408. *Graded Skew Clifford Algebras and
their Associated Geometry.*

Graded Clifford algebras are non-commutative algebras that have been known since at least the 1980s, and one can read off certain properties of such an algebra from certain commutative geometric data associated to the algebra. Recently, T. Cassidy and the speaker introduced a generalization of such an algebra, called a graded skew Clifford algebra, and they found that most of the results concerning graded Clifford algebras can be extended to graded skew Clifford algebras, provided the appropriate non-commutative geometric data is defined. In this talk, the main focus will be this algebra-geometry correspondence and examples. (Received September 02, 2009)