1116-G1-930   **Van A Herd*** (`herd@austin.utexas.edu`), Mail Code B7000, University of Texas at Austin, Austin, TX 78712. *Newton's Dark Secret: Using Historiographical Controversies to Introduce the Rudiments of Partial Differential Equations (PDE) into Developmental Mathematics Courses.*

The student populations who take developmental mathematics courses often are characterized as (1) non-mathematics majors and (2) as having untapped mathematical potential. As such, many of the populations do not advance through the mathematics sequence to study PDEs, yet have the intellectual ability to comprehend and do basic PDEs. In this session, the author will evaluate the manuscript evidence of PDEs in Sir Isaac Newton (1643-1727), and will then present his experience teaching developmental mathematics students the rudiments of PDEs using the historiography of the controversy surrounding Newton's development and use of PDEs. (Received September 15, 2015)