1002-01-162   **Paul R Wolfson*** (`pwolfson@wcupa.edu`), Department of Mathematics, West Chester University, West Chester, PA 19383. *Some Questions about the History of the Equivalence Problem.* Preliminary report.

A basic problem in invariant theory is to determine, for two forms, a set of invariants whose equality guarantees the equivalence of the forms. This problem goes back to the beginnings of invariant theory in the middle of the nineteenth century and still generates research. In this talk I shall discuss briefly several questions whose answers would help us to construct a more complete history of invariant theory. (Received September 13, 2004)