1023-H5-1617   **Robert E. Bradley*** (`bradley@adelphi.edu`), Adelphi University, Department of Mathematics & Computer Science, 1 South Ave., Garden City, NY 11530. *Functions vs. Equations in Euler's Work.*

Euler's textbooks, especially the *Introductio in analysin infintorum*, were influential in promoting the notion of function as central to the foundations of calculus. Nevertheless, Euler wrote many pieces on the theory of equations, even devoting the second volume of the *Introductio* to a survey of analytic geometry.

In this talk, we will survey some of Euler's work on algebraic equations with an eye to classroom application, including both original source reading projects and practical examples for mainstream courses. (Received September 26, 2006)