

1023-H5-1343      **Daniel E. Otero\*** ([otero@xavier.edu](mailto:otero@xavier.edu)), Department of Mathematics & Computer Science,  
Xavier University, 3800 Victory Parkway, Cincinnati, OH 45207. *E29, or Pell's equation in the  
number theory classroom.*

In the 1730s and early in his career, Euler took up the study of Pell's equation. He would return to these investigations on a number of occasions over the course of the next 45 years, carving out more number theoretic results with each pass (see Ed Sandifer's April 2005 column for *How Euler Did It* at MAA Online). The author has prepared an English translation of Euler's first paper (1738, E29) on the Pell equation, and will discuss the experience of sharing this work with an undergraduate number theory class. (Received September 25, 2006)