

1106-01-2850 **Dominique Duncan*** (dduncan@math.ucdavis.edu), Department of Mathematics, 3113
Mathematical Sciences Building, UC Davis, One Shields Ave., Davis, CA 94616-8633. *The Legacy
of Jerzy Neyman.*

Jerzy Neyman, a Polish-American mathematician and statistician, made revolutionary contributions to statistics, scientific planning, and collaborations between different disciplines. He was called "a principal architect of modern statistics." I heard Neyman's name for the first time many years ago at an applied mathematics conference in Zakopane, Poland and learned that he spent most of his life at the University of California at Berkeley. When I took an advanced statistics course in high school, I learned about the Neyman-Pearson Lemma and its importance in the field. That lemma is used to construct or find the uniformly most powerful level alpha hypothesis test. It provides a systematic method of determining the best critical region for testing one hypothesis versus another. When I was in college at the University of Chicago, in Professor Stigler's "History of Statistics" class, I learned the breadth of Neyman's contributions and the importance of his work in the area of statistics, and furthermore, his philosophy of statistics, its necessity, and the advantage of its applications. Neyman used to say "statistics is the servant to all sciences." (Received September 16, 2014)