

1077-E5-2770      **Annala R Kelly\*** ([annela.kelly@bridgew.edu](mailto:annela.kelly@bridgew.edu)), 10 Stanley Avenue, Barrington, RI 02806.  
*Probability Density Functions from Real-World Applications.*

The talk will introduce motivating examples of probability density functions from actuarial science for more advanced statistics course. These applicational examples illustrate the concept of discrete and continuous probability density functions, and how to calculate expected value, standard deviation and covariance. First, this approach, introduces the students to the well-regarded actuary profession and to the actuarial science exams. Second, the use of these problems will reinforce the understanding of density functions the expected value; the standard deviation and the covariance. (Received September 22, 2011)