

1056-Z1-1817 **susan e. kelly*** (kelly.susa@uwlax.edu), Mathematics Department, University of Wisconsin - La Crosse, 1725 State Street, La Crosse, WI 54601, and **sarah rozner**. *Winifred Edgerton Merrill - She Opened Doors*.

Winifred Edgerton Merrill was the first American woman to receive her Ph.D. in Mathematics. She earned her degree from Columbia University in 1886, a time when women were not allowed to be officially admitted to this male only university. In her thesis, Multiple Integrals, she uses an application of Green's Theorem which would work nicely in a Multidimensional Calculus course. Highlights of her thesis and her life, obtained from published works, archives, and a personal family journal, will detail some of her contributions to mathematics and to the advancement of women. (Received September 22, 2009)