

1112-01-53

**Amanda Marie Steckly\*** (asteckly@luc.edu), 7622 W. Arcadia St., Morton Grove, IL 60053, and **Marie Turano** (mturano@luc.edu) and **Kathryn Pantell** (kpantell@luc.edu). *The Continuing Influence of Sophie Germain*. Preliminary report.

Sophie Germain's life and her mathematics have served as a continuing inspiration for research and for motivation especially for women mathematicians. Her significant contribution to the study of Fermat's Last Theorem incorporated "Germain primes", where  $p$  and  $2p+1$  are both prime. Her influence continues to this day with attempts to prove that there are infinitely many Germain primes, and related topics including Cunningham chains, twin primes, Mersenne primes, and diverse applications of Germain primes. (Received July 07, 2015)