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**Harriet M Lord\*** ([hlord@csupomona.edu](mailto:hlord@csupomona.edu)), Dept. of Mathematics, Cal Poly Pomona, 3801 W. Temple Ave., Pomona, CA 91768. *Henri Lebesgue and Arc Length*. Preliminary report.

In this talk we present Lebesgue's work on *arc length*. We present his definition of arc length and then compare this to previous definitions and to various definitions of surface area. (Received September 11, 2009)