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Nick Scoville* (nscoville@ursinus.edu), 153 Regents Rd., Collegeville, PA 19426. *The Advent of Point-Set Topology*. Preliminary report.

Point-Set topology was established as its own field in an 1872 paper by Georg Cantor. While some of the ideas in point-set topology had been around for decades, Cantor was the first to abstract them into the language of “point-sets.” In this talk, we examine Cantor’s 1872 paper to discover the subtle and ingenious way he solved a problem concerning trigonometric series representation of a function by introducing the concept of a point-set. (Received September 10, 2010)