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James Evans* (jcevans@pugetsound.edu), Program in Science, Technology, and Society,
University of Puget Sound, 1500 North Warner St., Tacoma, WA 98115. *The Mathematics of the
Antikythera Mechanism.*

The Antikythera mechanism is a gear-work astronomical calculating machine that was built in the second century B.C. Lost in a shipwreck around 80 B.C., it was recovered in 1901 as a result of the first successful underwater archaeological expedition ever completed. A century of research, including some intensely interesting new work in the last decade, has gradually disclosed the purpose and function of this ancient machine. In this talk, we shall examine the mathematical foundations, both Greek and Babylonian, of the Antikythera mechanism. In the process, we shall see some interesting connections among the arts of astronomy, geometry, arithmetic and mechanics. (Received September 18, 2009)