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Brian Hopkins* (bhopkins@spc.edu). *Fleury and Hierholzer on Euler Paths*. Preliminary report.

Euler's work on the bridges of Königsberg gives scant attention to the converse: in modern language, given a connected graph with zero or two vertices of odd degree, how do you know there is a path that uses each edge exactly once? The first complete proof appears in a posthumous 1873 publication of Hierholzer. But the name most often associated with a solution is Fleury, based on an 1883 article. In this talk, we will go to the original sources and compare the methods of Hierholzer and Fleury to construct Euler paths. (Received August 19, 2008)