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Walter Meyer* (meyer@adelphi.edu), Department of Mathematics & Computer Science, Adelphi University, Garden City, NY 11530. *Unsolved Problems in the History of Undergraduate Mathematics*. Preliminary report.

The last few decades have seen great changes in undergraduate mathematics. It would probably be useful, and it would certainly be interesting, to know how and why these things have come about. In this talk I identify 3 problems of particular interest, outlining what little is known and what is still mysterious: 1. What accounts for the rise of applications in the curriculum? 2. What accounts for the mysterious swings in enrollments of undergraduate majors in the mathematical sciences? 3. How much influence have forces outside of mathematics, such as other disciplines, had on the world of undergraduate mathematics? (Received July 08, 2005)