

Meeting: 1003, Atlanta, Georgia, SS 9A, AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates, I

1003-11-974 **Lisa L. Lackney*** (rogue_815@yahoo.com), Department of Mathematics, The University of Akron, Akron, OH 44325. *Properties of a family of generalized Fibonacci type polynomials*. Preliminary report.

The Fibonacci Forum began in the summer of 2002 as an undergraduate seminar to produce original, publishable research in the Fibonacci numbers. Although the work has been theoretical in nature, the Fibonacci numbers, and related sequences and polynomials, have applications in data encoding, database systems, day trading, and in many other fields. This presentation will focus on the properties of a family of generalized Fibonacci and Lucas type polynomials. (Received October 01, 2004)