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**Carrie E. Finch, Lenny Jones and Dylan Sorge\*** ([finchc@wlu.edu](mailto:finchc@wlu.edu)). *Markov-Sierpiński numbers*. Preliminary report.

In 1962, J. Selfridge showed that 78557 has the property that for all natural numbers  $n$ ,  $78557 \cdot 2^n + 1$  is composite. Odd positive integers (such as 78557) with this property are called Sierpiński numbers in honor of W. Sierpiński's 1960 paper demonstrating their existence. In this talk, we discuss Sierpiński numbers in the sequence of Markov numbers. (Received September 17, 2013)