

1046-J1-1600      **Patrick Bahls\*** (pbahls@unca.edu), Department of Mathematics, UNC Asheville, CPO #2350,  
One University Heights, Asheville, NC 28804-8511. *Potential literature and group theoretical  
poetry*. Preliminary report.

Historically the intersection of math and poetry is not an empty one. Leaving aside classical mathematical prescriptions for poetic structure (meter, rhyme structure, syllable count), modern literature has seen poetry and other experimental literary forms imbued with much more intentional mathematical structure.

In this talk we will briefly survey the work of the “potential literature” movement and associated movements. We will then indicate some new methods for crafting poetry with structures prescribed by group theory. These methods are interesting not only as guides for literary invention, they serve as excellent pedagogical tools assisting the teaching of various topics in abstract algebra. (Received September 16, 2008)