1017-20-85 Mauricio Gutierrez\* (mauricio.gutierrez@tufts.edu), Tufts University Mathematics Department, Bromfield-Pearson Building, Medford, MA 02155, and Adam Piggott (adam.piggott@tufts.edu), Tufts University Mathematics Department, Bromfield-Pearson Building, Medford, MA 02155. Symmetric Automorphisms of right-angled Groups. Preliminary report.

Let m be a non-negative integer and G a graph with vertices S and edges A. Define  $W = W_m$  by the presentation

$$\langle S \mid s^m = 1 \ st = ts \ if \ (s,t) \in A \rangle$$

When m = 2 (resp. m = 0) W is the right-angled Coxeter (resp. Artin) group associated to G. It turns out that great many of the standard Coxeter groups can be proved for all values of m using graphs of groups a la Serre. In addition, we study the group  $Aut^0W$  of symmetric (generator conjugating) automorphisms. So far, the generators of this automorphism group are the same found by B. Muhlherr for the case m = 2. We conjecture that the presentation found by Muhlherr for m = 2 in it J. Algebra vol.2000, pp.629-649, suitably modified, also presents the automorphism group for  $m \neq 2$ . (Received February 14, 2006)