John Shareshian* (shareshi@math.wustl.edu) and Michelle Wachs (wachs@math.miami.edu). Cyclic sieving and permutation statistics.

I will discuss several examples of triples \((G, X, P)\) that exhibit the cyclic sieving phenomenon of Reiner, Stanton and White, with \(G\) a cyclic subgroup of \(S_n\) generated by an \(n\)-cycle or an \((n - 1)\)-cycle, \(X\) a union of conjugacy classes in \(S_n\) on which \(G\) acts by conjugation, and \(P\) the generating polynomial for the restriction of some permutation statistic to \(X\). (Received February 09, 2009)