1116-55-525 **Peter N Wong\*** (`pwong@bates.edu`), 3 Andrews Road, Hathorn Hall, Lewiston, ME 04240.
*Fixed point theory of geometric 3-manifolds.* Preliminary report.

In topological fixed point theory, the Nielsen number $N(f)$ of a self map $f : M \to M$ is equal to the minimal number of fixed points among all maps homotopic to $f$ provided $M$ is a compact manifold of dimension at least 3. In this talk, we consider the computation of $N(f)$ when $M$ is a *geometric* 3-manifold, i.e., $M$ is endowed with one of the eight geometries according to Perelmann-Thurston geometrization theorem. In particular, we focus on the cases when $M$ admits Euclidean, spherical, $S^2 \times \mathbb{R}$, Nil, or Sol geometry. (Received September 05, 2015)