Regina Rotman* (rina@math.toronto.edu), Department of Mathematics, 40 St. George st., University of Toronto, Toronto, Ontario M5S2E4, Canada. Periodic Geodesics and Geodesic Nets on Riemannian Manifolds.

I will talk about periodic geodesics, geodesic loops, and geodesic nets on Riemannian manifolds. More specifically, I will discuss some curvature-free upper bounds for compact manifolds and the existence results for non-compact manifolds. In particular, geodesic nets turn out to be useful for proving results about geodesic loops and periodic geodesics. (Received January 21, 2019)