Neil Robertson* (robertso@math.ohio-state.edu). On graph well-quasi-order by topological inclusion.

Graph well-quasi-order (wqo) goes back to Vazsonyi, who conjectured in the 1930’s that trees under topological inclusion have the property that for any infinite sequence $T(1), T(2), ...$ of trees, indices $i, j$ exist with $T(i)$ topologically included in $T(j)$. This talk considers the general problem of when a topologically closed class of graphs is a wqo. The conjecture for trees was proved by J. Kruskal in the 1950’s and the conjecture for subcubic graphs is a corollary of the graph minor wqo theorem from the 1980’s. (Received September 22, 2010)