

1106-VN-1010 **Megan Cream***, mcream@emory.edu, and **Ronald Gould, Ralph Faudree and Kazuhide Hirohata.** *On Chorded Cycles.*

Historically, there have been many well known results concerning sufficient conditions for finding certain sets of cycles in graphs. Until 1960, *chorded* cycles were greatly ignored. That year, Posa asked: what conditions imply a graph must contain a chorded cycle? This question has since inspired many more questions concerning conditions that guarantee the existence of specific sets of chorded cycles in a graph. Recently, there have been many chorded cycle results considering neighborhood conditions ($|N(x, y)|$) degree sum conditions ($\sigma_2(G)$), and minimum degree conditions ($\delta(G)$). This talk will focus on the new results from the past year— joint work with Ralph Faudree, Ron Gould, and Kazu Hirohata. (Received September 09, 2014)