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James Carraher* (s-jcarrah1@math.unl.edu), **Michael Ferrara**, **Timothy Morris** and **Michael Santana**. *Pairs of forbidden subgraphs for pancyclicity.*

A graph G is pancyclic if G contains cycles of all lengths from 3 to $|V(G)|$. We investigate which pairs of forbidden subgraphs imply that a 4-connected graph is pancyclic. Let $N(i, j, k)$ be the graph formed by adding paths of lengths i , j , and k , to different vertices of a triangle. We show that if G is 4-connected, claw-free, and $N(i, j, k)$ -free with $i + j + k = 6$ and $i, j, k \neq 0$, then G is pancyclic. This is best possible and extends a result of Gould, Łuczak, and Pfender. (Received August 29, 2012)