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Ronald J. Gould* (rg@mathcs.emory.edu), Dept. of Mathematics and Computer Science,
Emory University, Atlanta, GA 30322. *The Many Forms of the Matthews - Sumner Conjecture.*

Given a graph H , a graph G is H -free if G contains no subgraph isomorphic to H . The Matthews - Sumner Conjecture states that every 4-connected $K_{1,3}$ -free graph is hamiltonian. In this talk we look at this conjecture and a number of other related conjectures, as well as the most recent advances on the problem. (Received September 13, 2011)