

APR06-2006-030057

Abstract for an Invited Paper
for the APR06 Meeting of
the American Physical Society

Evolution of Biological Diversity

DUANE JEFFERY, Brigham Young University

A conservative estimate posits approximately ten million species presently inhabiting Earth, and these are clearly only a small fraction of those that have existed throughout Earth's history. Although various types of selective mechanisms have been identified as generating this diversity, and several chance mechanisms as well, the relative importance of these mechanisms is not firmly resolved. We review the current status of the discussion and some of the associated political and social ramifications.