

DEPARTMENT OF CHEMISTRY  
CORNELL UNIVERSITY

ITHACA, NEW YORK

Sept. 9, 1965

Prof. J. Lederberg  
Dept. of Genetics  
Stanford University

Dear Prof. Lederberg:

Thank you for your last letter explaining the notation for non-hamiltonian circuits.

No, we are not making any gauche graphs. However, my own opinion is that this "topological hiatus" will be first filled by molecules of the type shown below.



I don't see any need on my part of the complete set of graphs at this point, but I would be very interested if your programs can produce the complete set of graphs on  $n$  vertices,  $n$  odd, with  $n-1$  vertices trivalent, and one vertex divalent. These would be representations of anions, cations or radicals.

Sincerely,

Roald Hoffmann