



Division of the History of Chemistry
American Chemical Society

Citation for Chemical Breakthrough



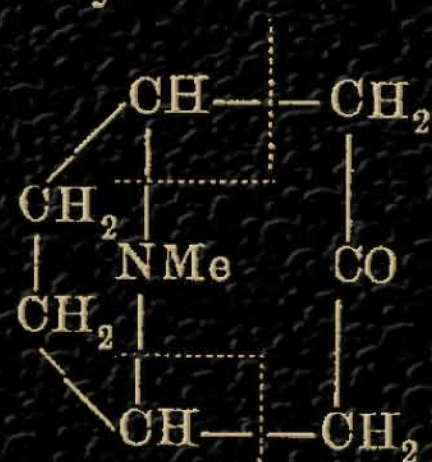
The First Retrosynthetic Analysis and Multi-Component Reaction

R. Robinson, *Journal of the Chemical Society*,
1917, 762–768.

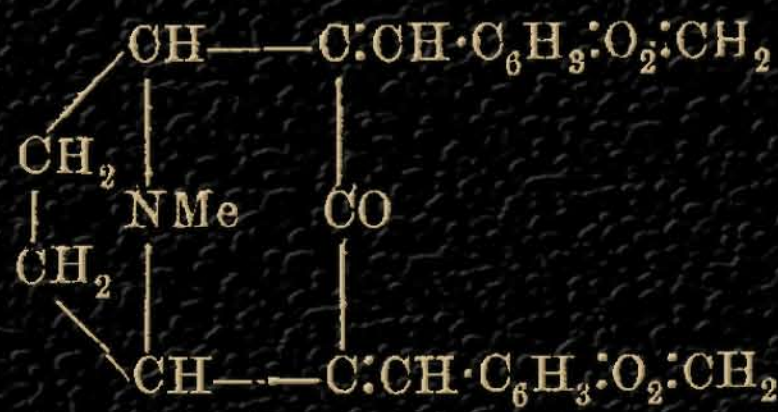
LXIII.—A *Synthesis of Tropinone.*

By ROBERT ROBINSON.

Nevertheless, an inspection of the formula of tropinone (I) discloses a degree of symmetry and an architecture which justify the hope that the base may ultimately be obtained in good yield as the product of some simple reaction and from accessible materials. By imaginary hydrolysis at the points indicated by the dotted lines, the substance may be resolved into succinaldehyde, methylamine, and acetone, and this observation suggested a line of attack of the problem which has resulted in a direct synthesis.



(I.)



(II.)

Presented to the University of Liverpool

2011