GENEALOGY DATABASE ENTRY

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DEGREE: PhD DATE: 1930 PLACE: Wales
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with Ingold, recognized two distinct mechanisms of nucleophilic substitution, the unimolecular and the bimolecular (S_N1 and S_N2), and a unimolecular and bimolecular mechanism of elimination (E_1 and E_2) - their nomenclature came to form the basis of the classification of organic mechanisms; instrumental in developing a technique to concentrate ^{18}O in water (up to 15%) - the ^{18}O enriched water was then used a a mechanistic tool; studied the kinetics of electrophilic substitutions and aromatic rearrangements; used radioiodine to determine that every act of nucleophilic S_N2 substitution in 2-iodooctane occurs with inversion of configuration; studied kinetics of solvolysis and olefin elimination reactions.

1. *Dictionary of National Biography*; Smith, Elder & Co.: 1908-1986; (1961-1970), p548.
2. *Biog. Mem. Fell. Roy. Soc.* **1964**, *10*, 147-182.