

# GENEALOGY DATABASE ENTRY

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Farmer, Ernest Harold

1890 - 1952

DEGREE: DSc

DATE: 1924

PLACE: Imperial Coll., London

TEACHER/RESEARCH ADVISOR: Thorpe/Ingold

studied the mechanism of the bromination of dienes and trienes; investigated the addition of unsymmetrical reagents such as hydrogen bromide, hypochlorous acid, and alkyl hypochlorites to olefins, and found that the laws governing substitution in the aromatic series determined the direction of addition; studied the reactivity of conjugated systems, finding that 1,2 addition is an independent process as important as 1,4 addition; studied the reactions of olefins with maleic anhydride, peroxides, quinones, halogens, lead tetracetate, selenium dioxide, and oxidizing agents in general, showing that the key step is dehydrogenation at the  $\alpha$ -methylene position; investigated the reactions of sulfur with olefins as a means of studying the vulcanization of rubber, demonstrating that chemical C-S bonds (cross-links) are formed during the vulcanization process.

1. *Obit. Not. Fell. Roy. Soc.* **1952**, 8, 159-169.
2. *Nature* **1952**, 169, 819-820.
3. *J. Chem. Soc.* **1954**, 1654-1659.