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# Report for 1937

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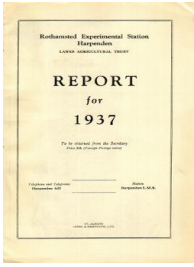


# General

## Rothamsted Research

Rothamsted Research (1938) *General ;* Report For 1937, pp 105 - 105 **- DOI: https://doi.org/10.23637/ERADOC-1-69**

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# TECHNICAL AND OTHER PAPERS

## GENERAL

LXI. R. K. SCHOFIELD. "*The Viscosity of Flour Dough.*" Proceedings of the Royal Society of London, A, 1937, Vol. CLXIII, pp. 334-337.

This is a contribution to a discussion on the viscosity of liquids held by the Royal Society. The results of the data originally published in the Journal of Physical Chemistry and abstracted as papers V, VI, and VII in the Rothamsted Report for 1932 and as paper XVIII in the 1936 Report were briefly summarised.

LXII. G. NAGELSCHMIDT. "*A New Calcium Silicophosphate.*" Journal of the Chemical Society, 1937, pp. 865-867.

A new compound with a chemical composition approximating to $7CaO.P_2O_5.2SiO_2$ was isolated from certain medium-soluble basic slags. Its optical and X-ray powder data are almost identical with those of synthetic calcium silicophosphate of approximate composition $8CaO, P_2O_5, 2.5SiO_2$ prepared by Trömel. The new silicophosphate, like the well-known silicocarnatite which is the main constituent of basic Bessemer slags, is readily soluble in citric acid.

LXIII. K. WARINGTON. "*Boron in Agriculture.*" Nature, 1937, Vol. CXL, p. 1016.

Attention is drawn to the rapidly growing list of plants for which boron is an essential element; water culture experiments at Rothamsted suggest that carrot can also be included.

LXIV. F. C. BAWDEN and N. W. PIRIE. "*Liquid Crystalline Preparations of Cucumber Viruses 3 and 4.*" Nature, 1937, Vol. CXXXIX, p. 546.

Nucleo proteins have been isolated from plants infected with these viruses, which are similar to those isolated from tobacco mosaic. The method of isolation is described, and the physical properties detailed. Fuller particulars are given in paper LIII, above.

LXV. E. J. RUSSELL. "*Methods in Scientific Research.*" Indian Association for the Cultivation of Science, March, 1937.

LXVI. E. J. RUSSELL. "*Modern Movements in Agricultural Science.*" Calcutta Review, 1937, Vol. LXII, pp. 230-238.

LXVII. E. J. RUSSELL. "*Les Rapports des Bureaux Imperiaux de l'Empire Britannique avec less Travaux des Departements d'Agriculture d'Outre-Mer.*" Annales Agronomiques, 1938, Vol. VIII, pp. 149-157.

LXVIII. E. J. RUSSELL. "*Farming in Soviet Russia.*" Journal of the Ministry of Agriculture, 1938, Vol. XLIV, pp. 1063-1072.

LXIX. E. J. RUSSELL. "*The Farming Problem in Russia: How it is Being Met.*" Slavonic Review, 1938, Vol. XVI, No. 47.

LXX. E. J. RUSSELL. "*Poland Revisited.*" Journal of the Manchester Geographical Society, 1937, Vol. XLVII, pp. 11-38.

LXXI. B. A. KEEN. "*Blue Sun during Dust Storm.*" Quarterly Journal of the Royal Meteorological Society, 1937, Vol. LXIII, p. 338.

LXXII. B. A. KEEN. "*Agriculture on the Screen.*" Sight and Sound, 1937, Vol. VI, pp. 40-42.

LXXIII. R. K. SCHOFIELD. "*The Errors of Flow-meters and the Advantages of a New Type of Constriction.*" Proceedings of the Royal Society of Medicine, 1937, Vol. XXXI, pp. 443-445.

LXXIV. W. E. BRENCHLEY. "*Openings for Women in Scientific Research.*" Women's Employment, Feb. 18th, 1938, pp. 76-78.

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