Opening Address by the Conference President  
Dr. H.G. Sanders, Ministry of Agriculture, Fisheries and Food

Session I:  SOIL PESTS AND DISEASES OF AGRICULTURAL CROPS INCLUDING THEIR CONTROL BY SOIL APPLIED CHEMICALS AND SEED DRESSINGS

Chairman: D.W. Wright, National Vegetable Research Station

The Eelworm Problem. F.G.W. Jones, Rothamsted Experimental Station

Research Report:

(A.1) Field Experiments with a new organophosphorus Nematicide against Potato Root Eelworm
W. D. Fraser, Field Station, Wisbech and C. D. Lindley, Cyanamid of Great Britain, Ltd.

Discussion

Insecticides, Fungicides and the Soil
A review of a symposium held on 28th February, 1961, to discuss the effects of chemicals on soil-inhabiting organisms and other aspects of such treatments.
Hubert Martin

Fungicide Seed Dressings
Mary J. M. Noble, Department of Agriculture and Fisheries for Scotland

Insecticidal Seed Dressings and Soil Insecticides
M. J. Way, Imperial College Field Station, Ascot, Berks

Research Reports:

(A.2) Results of Experiments with systemic insecticidal Seed Dressings
R. Bardner, Rothamsted Experimental Station

(A.3) Studies of Effect on Germination of certain Solvents used in experimental liquid insecticidal Seed Dressings applied to Cereals which have received a standard Application of a liquid organo-mercurial Compound
H. D. H. Womack, Shell Chemical Co. Ltd.
Session II: SYSTEMIC INSECTICIDES INCLUDING THEIR USE FOR VIRUS CONTROL

Chairman: F C. Bawden, Rothamsted Experimental Station

Systemic Insecticides and Virus Control in Potatoes
L. Broadbent, Glasshouse Crops Research Institute, and P. E. Burt, Rothamsted Experimental Station

Control of Sugar-beet Yellows
R. Hull, Rothamsted Field Station, Dunholme, Lincoln

Research Reports:

(B.1) Comparisons of Aphicides, especially granular Systemics, for the Control of Beet Yellows
R. A. Dunning and G. H. Winder, Rothamsted Field Station, Dunholme, Lincoln

(B.2) The Control of Sugar-beet Virus Yellows with Phorate Granules
C. D. Lindley, Cyanamid of Great Britain Ltd.

(B.3) Field Trials with Thiodemeton for the Control of Aphids attacking Sugar-beet, Potatoes and Brassicas
W. Linke, J. D. Forrest and B. G. Hoare, Baywood Chemicals Ltd.

(B.4) The Use of Dimethoate for the Control of Sugar-beet Virus Yellows in Great Britain
Q. A. Geering, Chesterford Park Research Station

(B.5) A Progress Report on the Control of Aphids in Mangold Clamps by Methyl Bromide Fumigation
R. A. Dunning, Rothamsted Experimental Station, A. B. P. Page, O. F. Lubatti and A. Mainwaring, Imperial College Field Station, Ascot, and C. Baker, Plant Pathology Laboratory, Harpenden

Discussion

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Session III: FORECASTING OF PEST AND DISEASE OUTBREAKS, SPRAY TIMINGS AND ECONOMICS OF CONTROL. POTATO BLIGHT AND ITS CONTROL.

Chairman: W. C. Moore, Ministry of Agriculture, Fisheries and Food

Some factors influencing the Control of Potato Blight
G. H. Brenchley, National Agricultural Advisory Service, Eastern Region
Research Reports:

(C.1) The chemical Control of Potato Blight in the U.K.
E. Evans, Chesterford Park Research Station

(C.2) Trials of Copper Fungicides: Adaptation of Bordeaux and Burgundy Mixtures for low volume Spraying
A. V. Coombs, British Sulphate of Copper Association Ltd., H. S. Foster and H. L. Haigh, McKechnie Brothers Ltd., Widnes, Lancs

Discussion

(C.3) Pea Moth on dry harvesting Peas: Investigations into the timing of Sprays, the Economics of Control Measures and forecasting the Levels of Attack
H. J. Gould and T. J. Legowski, National Agricultural Advisory Service, Cambridge

Session IV: CONTROL OF APPLE MILDEW

Chairman: R. W. Marsh, Long Ashton Research Station

The Control of Apple Mildew
R. T. Burchill, East Malling Research Station

Research Reports:

(D.1) (i) The Life History of Apple Mildew and the Field Assessment of the Disease
(ii) Winter and Spring Pruning against Apple Mildew
June V. Baker, National Agricultural Advisory Service, Cambridge

(D.2) The Importance of short time Intervals between Sprays against Apple Powdery Mildew
G. S. Roosje, Institute of Phytopathological Research, Wageningen

(D.3) Spray Timing for Apple Mildew Control
R. O. Sharples, Lenton Experimental Station

(D.4) Some recent Observations on the Control of Apple Mildew
D. Hunnam, The Murphy Chemical Co. Ltd.

(D.5) The Control of secondary Infection of Apple Mildew by Dinoocap and the Comparison of various Methods to assess Formulation Efficiency
H. J. Terry, Horticultural Research Station, Ongar, Essex

(D.6) The Effect of Apple Mildew on Yield and the Results of Spraying Trials for its Control
J. Ingram, NAAS Experimental Horticulture Station, Luddington

Discussion
Session V: PESTS OF TREE FRUITS: CONTROL OF RED SPIDER MITE, CODLING MOTH AND TORTRICIDS

Chairman: F. R. Tubbs, East Malling Research Station

Aspects of Biology of Importance in timing Sprays against Fruit Tree Red Spider Mite, Codling moth and the Fruit Tree Tortrix moths

G. H. L Dicker, East Malling Research Station

Research Reports:

(E.1) The Control of Codling moth, Summer Fruit tortricids and Fruit Tree Red Spider mite, with special Reference to Azinphos-methyl
(Miss) K. M. Powell, Baywood Chemicals Ltd.

(E.2) (i) Observations on the period and density of oviposition and apple entry by Codling moth in relation to timing of application of phosphamidon, ethion and DDT
K. Carpenter and H. J. Terry, Horticultural Research Station, Ongar, Essex

(ii) Leaf Bronzing in apples as a Measure of Efficiency of Acaricides and its relation to Leaf Population of Fruit Tree Red Spider mite
K. Carpenter, Horticultural Research Station, Ongar, Essex

(E.3) The present Position regarding the Incidence and Control of Apple Aphids, Fruit Tree Red Spider mite, Fruitlet Mining Tortrix and Pear sucker
J. H. Bryant and F. W. Webb, The Murphy Chemical Co. Ltd.

(E.4) Laboratory Techniques to determine, for advisory Purposes, the Susceptibility of the Fruit Tree Red Spider mite to Acaricides
P. G. Clinch, Lenton Experimental Station

(E.5) Resistance of the Fruit Tree Red Spider Mite (Metatetranychus ulmi) to Acaricides and the Control of resistant Strains in the Netherlands
M. van de Vrie, Institute for Phytopathological Research, Wageningen

Discussion
**Session VI: CONTROL OF BOTRYTIS DISEASES**

**Chairman:** T. Swarbrick, Scottish Horticultural Research Institute

**Introduction by the Chairman**

The Biology and Control of Diseases caused by *Botrytis* spp.
R. K. S. Wood, Imperial College of Science and Technology

**Research Reports:**

(F.1) Problems in the Control of Raspberry and Strawberry Grey Mould
W. R. Jarvis, Scottish Horticultural Research Institute

(F.2) Observations on the Control of Botrytis in Anemones
A. Elizabeth Jeff, Rosewarne Experimental Horticulture Station

(F.3) The fungitoxic Effect of Dicloran on *Botrytis cinerea*
R. O. Sharples, Lenton Experimental Station

**Discussion**

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**Session VII: CONTROL OF FUNGI AND NEMATODES BY SOIL STERILANTS**

**Chairman:** L. Broadbent, Glasshouse Crops Research Institute

Experiments with Soil Sterilants, with special reference to Sodium N-methyldithiocarbamate
W. Madel, P. Schicke and G. Linden, CELA GmbH., Ingelheim/Rhein

**Research Reports:**

(G.1) Investigations on nematicidal Activity and Crop Responses to chemical Soil Sterilants
J. E. Peachey, Rothamsted Experimental Station

(G.2) Six Years Experience with Metham-Na as a Soil Fumigant in the Netherlands
L. P. Flipse, G. Ligtermoet and Zoon N. V., Rotterdam

(G.3) Some recent Investigations with chemical Soil Sterilants
W. H. Read, J. T. Hughes and R. J. Smith, Glasshouse Crops Research Institute

(G.4) Nabam, new Formulation and novel Uses
D. Tyson, Pan Britannica Industries Ltd.

**Discussion**
EXTRA-SESSIONAL PAPERS ON ANALYSIS OF PESTICIDES

(G.5) The Analysis of Pesticide Residues in Foodstuffs: A Review of recent Developments in Analytical Methods
H. Egan and E. Q. Laws, D S. I. R., Laboratory of the Government Chemist

(G.6) Analysis of synthetic organic Pesticides in Water by Chromatography
E. Hinden and G. H. Dunstan, Washington State University

Discussion

Session VIII: NEW DEVELOPMENTS, INCLUDING NEW COMPOUNDS, NOVEL FORMULATIONS, OR NEW APPLICATION METHODS
Chairman: J. T. Martin, Long Ashton Research Station

INSECTICIDE GROUP

(H.1) Systemic Migration and Insecticidal Activity of Dimethoate applied on Tree Trunks
P. de Pietri-Tonelli, A. Barontini and G. Biondi, Soc. Montecatini

(H.2) Menazon: Development of a selective systemic Aphicide
D. Price Jones, Jealott’s Hill Research Station

(H.3) Menazon: Control of Potato Aphids and aphid-transmitted Viruses by Tuber Treatment
J. F. Newman, Jealott’s Hill Research Station

FUNGICIDE GROUP

(H.4) Experiences with 5-Amino-3-phenyl-1-bis(dimethylamido) phosphoryl-1,2,4-triazole, a new Fungicide controlling Powdery Mildew
H. Elings, Agrobiological Laboratory "Boekesteyn", ’s-Graveland, The Netherlands

(H.5) Triphenyl Tin Hydroxide, a Fungicide for the Control of Phytophthora infestans on potatoes, and some other fungus diseases
A. J. Pieters, Agrobiological Laboratory "Boekesteyn", ’s-Graveland, The Netherlands

(H.6) Preliminary Results with a new compound for the Control of Apple Mildew and Red Spider in the U. K.
P. G. Clinch, J. Collyer and D. J. Higgons, Lenton Experimental Station
### Session IX: NEW DEVELOPMENTS, INCLUDING NEW COMPOUNDS, NOVEL FORMULATIONS, OR NEW APPLICATION METHODS (cont.)

**Chairman:** A. E. Muskett, Queen's University of Belfast

**ACARICIDE GROUP**

(H.7) Thioquinox - A new specific Acaricide of the Quinoxaline Group  
K. M. Powell and W. Linke, Baywood Chemicals Ltd.

(H.8) 2,4,5,4'-Tetrachloro-diphenyl Suphide, an Acaricide with ovo-larvicidal Properties  
J. Meltzer and K. F. Jacobs, Agrobiological Laboratory "Boekesteyn", 's-Graveland, The Netherlands

(H.9) Investigations of a new Series of nitrogenous Organophosphorus Compounds, Characteristics and Properties  
Fausto Galbiati, Soc. Montecatini

(H.10) Investigation into the biological Activity of a Series of Butylene Polymers  
Ian Greenfield, F. W. Berk & Co. Ltd.

(H.11) Special Formulations for Low Volume Spraying  
G. S. Hartley and R. Howes, Chesterford Park Research Station

**Discussion**

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### Session X: TRANSLATION OF RESEARCH INTO PRACTICE - THE INTRODUCTION OF INSECTICIDES AND FUNGICIDES INTO AGRICULTURAL PRACTICE AT HOME AND OVERSEAS

**Chairman:** E. E. Cheeseman, Agricultural Research Council

**Translation of Research into Practice - at Home**  
M. Cohen, National Agricultural Advisory Service

**Translation of Research into Practice - Overseas**  
George Ordish, Department of Technical Co-operation, Tropical Products Institute

**Discussion**