soybean plants need much superphosphate to equal the growth of plants given less phosphate but inoculated with *Enclogone*.

11. Cereals – *Endogone* spores are very widespread in wheatfield soils. There is a need to know whether VA infection becomes established sufficiently early in wheat under Australian conditions to appreciably effect its growth.

D.S. Hayman Biological and Chemical Research Institute P.M.B. 10, Rydalmere, N.S.W., 2116

(Dr. Hayman is currently visiting the Biological and Chemical Research Institute whilst on leave from his permanent position at Rothamsted Experimental Station, Harpenden, England. The editor is grateful to Dr. Hayman for so readily accepting the invitation to write this article)

REFERENCES

- Baltruschat, H. and Schönbeck, F. (1972) Untersuchungen über den Einfluss der endotrophen Mycorrhiza auf die Chlamydosporenbildung von *Thielaviopsis basicola* in Tabakwurseln. *Phytopath. Zeit* 74:358-361.
- (2) Bevege, D.I. (1968) A rapid technique for clearing tannins and staining intact roots for detection of mycorrhizas caused by *Endogone* spp., and some records of infection in Australasian plants. *Trans. Br. mycol. Soc.* 51:808-810.
- (3) Bevege, D.I. (1972) Vesicular-arbuscular mycorrhizas of Araucaria: Aspects of their ecology and physiology and role in nitrogen fixation. Ph.D. thesis, Univ. of New England, Armidale, N.S.W.
- (4) Begege, D.I. and Richards, B.N. (1971) Some aspects of Endogone forming mycorrhizas with Hoop Pine (Araucaria cunninghamii Ait.). XV IUFRO Congr. Sect. 24.
- (5) Gerdemann, J.W. (1968) –Vesicular-arbuscular mycorrhiza and plant growth. Ann. Rev. Phytopathology 6: 397-418.
- (6) Gerdemann, J.W. and Trappe, J.M. (1974) The Endogonaceae in the Pacific Northwest. *Mycologia Memoir* No.5, 76 pp.
- Hayman, D.S. (1976) Endomycorrhizae. In Interactions between Soil Microorganisms and Plants. ed. Y. Dommergues and S. Krupa. Elsevier, Amsterdam. (in press).
- (8) Hayman, D.S. and Mosse, B. (1972) Plant growth responses to vesicular-arbuscular mycorrhiza. III. Increased uptake of labile P from soil. New Phytol. 71: 41-47.
- Mosse, B. (1973) Advances in the study of vesiculararbuscular mycorrhiza. Ann. Rev. Phytopathology 11: 171-196.
- (10) Mosse, B. and Bowen, G.D. (1968a) A key to the recognition of some *Endogone* spore types. *Trans. Br. mycol. Soc.* 51: 469-483.
- (11) Mosse, B. and Bowen, G.D. (1968b) The distribution of Endogone spores in some Australian and New Zealand soils and in an experimental field soil at Rothamsted. Trans. Br. mycol. Soc. 51: 485-492.
- (12) Possingham, J.V. and Obbink, J.G. (1971) Endotrophic mycorrhiza and the nutrition of grape vines. *Vitis* 10: 120-130.
- (13) Possingham, J.V., Obbink, J.G. and Jones, R.K. (1971) Tropical legumes and vesicular-arbuscular mycorrhiza. J. Austral. Inst. Agr. Sci. 37: 160-161.
- (14) Ross, J.P. (1972) Influence of Endogone mycorrhiza on Phytophthora rot of soybean. Phytopathology 62: 896-897.
- (15) Samuel, G. (1926) Note on the distribution of mycorrhiza. Trans. Proc. Roy. Soc. S. Australia 50: 245-246.

NOTES

- References supporting most statements in this review are cited by Hayman (1976).
- (2) Techniques are described by Gerdemann (1968) and Mosse (1973).

NEWS FROM THE EXECUTIVE

Visit by Dr. J.E. van der Plank

As previously announced Dr. J.E. van der Plank has accepted an invitation by the Waite Agricultural Research Institute to visit Adelaide from August 12-14 of this year. Whilst in Adelaide, Dr. van der Plank will give a lecture and lead a workshop meeting on the "Genetics and Epidemiology of Plant Diseases". The Director of the Waite Institute has invited 25-30 scientists directly interested in this area to participate.

Arrangements are being made for Dr. van der Plank to extend the duration of his visit to Australia to include visits to Queensland, New South Wales and Victoria. The exact itinerary has not yet been finalized but will be in the period August 18-September 5. It is hoped that Dr. van der Plank will be able to give a seminar in Toowoomba, Sydney and Melbourne and visit centres of cereal research in each State.

Members in these three States will be notified of further details by their local Branch but any enquiries can be directed to the Secretary or Lester Burgess in Sydney or Peter Jenkins in Melbourne.

URGENT REMINDER TO ALL MEMBERS

Enclosed with the last A.P.P.S. Newsletter was a questionnaire seeking information for each member's personal entry in the Directory currently being compiled. To date only a little over half the members have returned their completed questionnaire.

If you are among the tardy, we urge you to help us by returning this information immediately. We hope to have this project completed as soon as possible to avoid clashing with the pre-conference organizing headaches soon to be upon us. Another reason for a rapid completion is that we wish to take advantage of a most generous offer to print the Directory free of cost to the Society.

The publication of the Directory can be delayed because of the non-cooperation of a few; make sure your name is included in the Directory by returning your completed questionnaire without delay.

REGIONAL NEWS

New South Wales Branch

Meetings

A continuing programme of dinner/seminar meetings is being maintained with recent addresses by Dr. R. Allen on 'Chemotoxis of Microorganisms in Soil' and Prof. K. Marshall on 'Interfaces and Bacterial Microhabitats'.

Visiting Scientists

Professor A.F. Sherf, Extension Plant Pathologist, Cornell University, New York, is spending six months sabbatical leave at the B.C.R.I., Rydalmere. Prof. Sherf is being supported in part by funds provided from the Australian