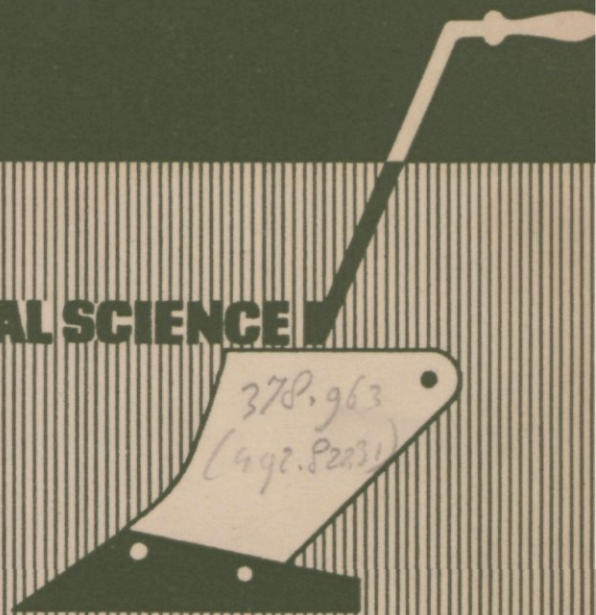


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CENTRE OF AGRICULTURAL SCIENCE



WAGENINGEN

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WAGENINGEN (NETHERLANDS) CENTRE OF AGRICULTURAL SCIENCE

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I. WAGENINGEN - CENTRE OF AGRICULTURAL SCIENCE

Introduction

The Agricultural University at Wageningen has been founded for the purpose of providing instruction. Headed by the professors, all divisions pursue this aim. In the course of years, however, the investigation into fundamental agricultural problems claimed more and more attention. For some divisions, research work has even become the main function.

Sometimes subdivisions of a laboratory grew to such an extent that the need was felt to make them autonomous. In some cases even a complete separation of the services was brought about. Through this natural evolution many points of contact have been preserved.

Various autonomous institutes have been founded at Wageningen with the purpose of maintaining close contact with the scientific centre. Many agricultural advisory officers (on general service) are stationed at Wageningen.

Often institutes which had an independent origin are interested in different aspects of one and the same problem. The relations are sometimes incidental and depending on fortuitous circumstances, in other cases we can speak of a working partnership.

In many study groups, counting among their members also persons not living at Wageningen, workers in the same field meet each other regularly and tackle together various important problems. Thus one aids the other, and everybody's vision is enlarged.

It would lead us too far to describe in this guide the many contacts between Wageningen and the outside world, which in certain cases absorb almost all the energy of some members of the staff of the institutes.

Through this close union with the world at large the scientific establishments of Wageningen remain informed of the practical problems, which stimulates their research work.

In 1940 the war and shortages called a halt to the construction of new laboratories of the Agricultural University, while the research institutes founded after 1940 had to be housed temporarily. Fortunately a few new laboratories have now been built and the construction of some institutes has started. Several new laboratories and institutes are being planned.

It can be noticed that the Government seeks to concentrate agricultural research at the place where the Agricultural University is located. The Agricultural University and the autonomous institutes tend ever to widen in scope. The aim is to further a *harmonious development* of the various departments of the Agricultural University while the Ministry of Agriculture, in view of the growing need of research directed toward practical problems, establishes separate institutes at Wageningen or in its neighbourhood. The course followed spares the divisions of the Agricultural University much work connected with research immediately relating to agricultural practice or to advisory tasks, while the appointment of professors on the boards of the various institutes preserves the contact with the mother establishment.

The graduates of the Agricultural University find employment in the Netherlands in many fields connected with government, research, education, extension, industry and business. Below are cited a few:

Department of Agriculture.

Agricultural University.

Autonomous Institutes of Wageningen.

Experiment Stations.

Secondary Agricultural Education.

Advisory Services (agricultural, horticultural, soil use and reallocation, tenancy, dairy, livestock, poultry and apiculture).

Food Supply.

Forest Service.

Service for Draining and Reclamation.

Reclamation project of the Zuiderzee.

Reclamation Societies.

Agricultural Organizations.

Dairy Cooperatives.

Seed Inspection Services.

Private Plant Breeding.

Provincial Hydrological Services.

Stewardship and Municipal Advisory Services.

Industry (dairying, brewing, strawboard manufac-

turing, timber and paper industry, canning, oil factories).

Business (fertilizers, agricultural machinery, seeds, disease-control products, feeding-stuffs).

Those who are managing their own farm perform sometimes important functions in various agricultural organizations.

Many graduates of the Agricultural University at Wageningen are working in foreign countries at:

Private Estates.

Experiment Stations.

Forest Services.

Agricultural Extension Services.

Foreign Agricultural Information Service.

International Organizations.

Emigration Advisory Services.

The International Agricultural Study Centre was formed in 1951. The object of this institution is to enable foreign students and young agronomists to avail themselves of the many opportunities for study offered at Wageningen (see p. 99).

II. *Agricultural University*

1. LABORATORIES AND INSTITUTES

College van Curatoren der Landbouwhogeschool – *Board of Curators of the Agricultural University* (Secr.: Dr A. E. H. R. Boonstra), Rijkssstraatweg 1A, Wageningen. Telephone 2341.

Landbouwhogeschool – *Agricultural University* (Rector Magnificus), Herenstraat 18, Wageningen. Telephone 2141 (3 lines).

Secretariaat – *Secretariat* (D. Bosman), Herenstraat 18, Wageningen.

Administratie – *Administration* (F. Wieringa), Herenstraat 18, Wageningen.

Aula – *Auditorium*. Rijkssstraatweg 1A, Wageningen. Telephone 2341.

Hulpgebouw – *Auxiliary Building*. Duivendaalselaan 9A, Wageningen. Telephone 2218.

Hulpgebouw aan de Diedenweg – *Auxiliary Building on the Diedenweg*. Diedenweg 18, Wageningen. Telephone 2462 (see p. 95).



Auditorium

Bibliotheek der Landbouwhogeschool – *State Agricultural Library* (Libr.: Dr H. N. Kooiman), Rijksstraatweg 1A, Wageningen. Telephone 2571 (see p. 98).

Agrarisch-Economische en -Sociale Geschiedenis – *Agricultural Economic and Social History* (Prof. Dr B. H. Slicher van Bath), Kamplaan 24, Groningen. Telephone 24663 (K 5900). Assistant: H. K. Roessingh, Diedenweg 18, Wageningen. Telephone 2462 (see p. 97).

Algemene Landbouwkunde – *General Agronomy* (Prof. Ir W. J. Dewez), Haarweg 33, Wageningen. Telephone 2876 (see p. 59).

Laboratorium voor Algemene Plantkunde – *Laboratory of General Botany* (Prof. Dr E. Reinders, Mrs Dr C. A. Reinders-Gouwentak), Arboretumlaan 4, Wageningen. Telephone 2594 (see p. 29).

8 Arboretum – *Arboretum* (Prof. Dr H. J. Venema), Rijksstraatweg 37, Wageningen. Telephone 2925.

Laboratorium voor Bloembollenonderzoek te Lisse – *Laboratory of Bulb Research at Lisse* (Prof. Dr E. van Slogteren), Lisse. Telephone 3335 (K 2530) (see p. 48).

Instituut voor Bosbouwkundig Onderzoek – *Institute of Forestry* (Prof. Dr J. H. Becking, Prof. Dr G. Houtzagers, Prof. Dr Ir J. F. Kools), Rijksstraatweg 64, Wageningen. Telephone resp. 2065, 2185 and 2102 (see p. 84).

Bouwkunde en Stedebouw – *Architecture and City Planning* (Prof. Wieger Bruin), Hesselink van Suchtelenweg 6A, Wageningen. Telephone 3138.

In Cultuur brengen van Drooggevalen Gronden – *Reclamation of Lands won from the Water* (Prof. Dr Ir A. J. Zuur), Jan van Arkelstraat 5, Kampen. Telephone 542 (Kampen).

Cultuurtechniek – *Division of Land Drainage and Land Improvement* (Prof. Ir F. Hellinga), Dui-vendaalselaan 7, Wageningen. Telephone 2416 (see p. 46).

Laboratorium voor Entomologie - *Entomological Laboratory* (Prof. Dr W. K. J. Roepke), Rijkstraatsweg 37, Wageningen. Telephone 2438 (p. 49).

Laboratorium voor Erfelijkheidsleer - *Laboratory of Genetics* (Prof. Dr R. Prakken), Rijkstraatsweg 53, Wageningen. Telephone 2338 (p. 33).

Landbouwhuishoudkunde - *Rural Home Economics* (Prof. C. W. Willinge Prins-Visser), Herenstraat 18, Wageningen. Telephone 2141.

Laboratorium voor Landbouwplantenteelt - *Laboratory of Field Crop Husbandry* (Prof. Ir W. J. Dewez), Haarweg 33, Wageningen. Telephone 2876 (see p. 58).

Laboratorium voor Landbouwscheikunde - *Laboratory of Agricultural Chemistry* (Prof. Dr A. C. Schuffelen), Herenstraat 18, Wageningen. Telephone 2141 (see p. 39).

Instituut voor Landbouwwerktuigen en gebouwen - *Institute of Agricultural Machinery and*

Rural Buildings (Prof. Ir G. Riemer Jzn, Ir G. Pot-hoven), Duivendaalselaan 7, Wageningen. Telephone 2050.
Agronomist: Ir A. Hadders.

Laboratorium voor Landmeetkunde - *Laboratory of Surveying* (Prof. A. Kruidhof), Hesselink van Suchtelenweg 6, Wageningen. Telephone 2643 (see p. 45).

Land- en Volkenkunde en de Indonesische talen - *Division of Social Anthropology and the Indonesian Languages* (Dr F. H. van Naerssen), Die-denweg 18, Wageningen. Telephone 2463 (p. 89).

Laboratorium voor Microbiologie - *Microbiological Laboratory* (Prof. Dr Jan Smit), Hesselink van Suchtelenweg 4, Wageningen. Telephone 2771 (see p. 34).

Laboratorium voor Natuurkunde en Weerkunde - *Laboratory of Physics and Meteorology* (Prof. Dr W. R. van Wijk), Duivendaalselaan 2, Wageningen. Telephone 2001 (see p. 35).

Laboratorium voor Organische Chemie – *Laboratory of Organic Chemistry* (Prof. Dr H. J. den Hertog), Herenstraat 16, Wageningen. Telephone 2141 (see p. 36).

Laboratorium voor Physiologie der Dieren – *Laboratory of Animal Physiology* (Prof. Dr E. Brouwer), Duivendaalselaan 1, Wageningen. Telephone 2923 (see p. 90).

Laboratorium voor Fysische en Colloid-chemie – *Laboratory of Physical and Colloid Chemistry* (Prof. Dr H. J. C. Tendeloo), Herenstraat 20, Wageningen. Telephone 2141 (see p. 37).

Laboratorium voor Phytopathologie – *Laboratory of Phytopathology* (Prof. Dr A. J. P. Oort), Binnenhaven 4, Wageningen. Telephone 2834 (see p. 50).

Instituut voor Phytopathologie en Entomologie – *Institute of Phytopathology and Entomology* (comprising three laboratories, two of which are established at Wageningen – the Laboratory of Phyto-

pathology and the Entomological Laboratory; and one at Lisse: the Laboratory of Bulb Research).

Laboratorium voor Plantenphysiologisch Onderzoek – *Laboratory of Plant Physiological Research* (Prof. Dr E. C. Wassink), Rijksstraatweg 72, Wageningen. Telephone 2817 (see p. 30).

Laboratorium voor Plantensystematiek en -geografie – *Laboratory of Plant Taxonomy and Geography* (Prof. Dr H. J. Venema, Dr J. G. B. Beumée), Rijksstraatweg 37, Wageningen. Telephone 2925, private telephone Prof. Venema: 2785 (see p. 32).

Laboratorium voor Regionale Bodemkunde, Mineralogie en Geologie – *Laboratory of Regional Pedology, Mineralogy and Geology* (Prof. Dr Ir C. H. Edelman, Dr D. J. Doeglas), Duivendaalselaan 2, Wageningen. Telephone 2363 (see p. 43).

Sociale en Economische Geografie en Sociale Statistiek – *Division of Social and Economic*

Geography and Social Statistics (Prof. Dr E. W. Hofstee), Diedenweg 18, Wageningen. Telephone 2462 (see p. 96).

Staat- en Landhuishoudkunde - General and Agricultural Economics. (Prof. Dr G. Minderhoud, Prof. Dr J. Horring, Prof. Dr Th. L. M. Thurlings, Prof. Dr I. Samkalden, Prof. Ir J. A. van Beukering), Diedenweg 18, Wageningen. Telephone 2462 (see p. 94).

Laboratorium voor Technologie - Technological Laboratory (Prof. Dr Ir H. A. Leniger), Herenstraat 21, Wageningen. Telephone 2638 (see p. 38).

Tropische Hygiëne - Tropical Hygiene (Prof. Dr J. W. Wolff), Koningslaan 61, Bussum. Telephone 4957 (K 2959).

Laboratorium voor Tropische Landbouwplantenteelt - Laboratory of Tropical Agriculture (Prof. Dr Ir C. Coolhaas, Ir G. G. Bolhuis), Prof. Ritzema Bosweg 32, Wageningen. Telephone 2193 (see p. 87).

Laboratorium voor Tuinbouwplantenteelt - Horticultural Laboratory (Prof. Dr Ir S. J. Wellensiek), Haagsteeg 3, Postbus 30, Wageningen. Telephone 2441 and 2442 (see p. 76).

Tuin- en Landschapsarchitectuur - Division of Landscape Architecture (Prof. Dr Ir J. T. P. Bijhouwer), Hesselink van Suchtelenweg 6a, Wageningen. Telephone 3138 (see p. 83).

Laboratorium voor Veeteelt - Laboratory of Animal Husbandry (Prof. Ir W. de Jong, Dr Th. de Groot), Duivendaalselaan 3A, Wageningen. Telephone 2473 (see p. 91).

Instituut voor Veredeling van Landbouwgewassen - Institute of Agricultural Plant Breeding (Prof. Dr Ir J. C. Dorst), Nude 66, Wageningen. Telephone 2942 (see p. 59).

Virologie - Virology (Prof. Dr T. H. Thung), Binnenhaven 4A, Wageningen. Telephone 2151 (see p. 50).

Laboratorium voor Weg- en Waterbouwkunde—*Laboratory of Road Construction and Water Engineering* (Prof. Ir W. F. Eijssvoegel), Herenstraat 18, Wageningen. Telephone 2141 (see p. 45).

Wiskunde—*Mathematics* (Prof. Dr N. H. Kuiper), Hulpgebouw, Duivendaalselaan 9A, Wageningen. Telephone 2218.
Assistant: Ir L. C. A. Corsten.

Laboratorium voor Zuivelbereiding en Melkkunde—*Laboratory of Dairying* (Prof. Dr H. Mulder, Prof. Ir S. Hartmans), Lawickse Allee 13, Wageningen. Telephone 2563 (see p. 92).

2. PROFESSORS EMERITI

Prof. Dr H. A. J. M. Beekman, Prins Mauritslaan 40, 's-Gravenhage. Telephone 553194 (K 1700).

Prof. Ir B. van der Burg, Selterskampweg 7, Bennekom. Telephone 442 (K 8379).

Prof. Ir J. Hudig, Dokter Boeslaan 21, Wageningen. Telephone 2732.

Prof. Ir J. H. Jager Gerlings, Prof. Ritzema Bosweg 13, Wageningen. Telephone 2380.

Prof. Dr S. C. J. Olivier, Dokter Boeslaan 14, Wageningen. Telephone 2507.

Prof. Dr H. M. Quanjer, Selterskampweg 14, Bennekom. Telephone 448 (K 8379).

Prof. Ir A. M. Sprenger, August Faliseweg 43, Wageningen. Telephone 2261.

Prof. Ir J. E. van der Stok, Valkeveense laan 19, Huizen (N.H.).

Prof. Dr M. J. van Uven, Rijksstraatweg 26, Wageningen. Telephone 2331.

3. LECTURERS

Besides the professors the following lecturers are giving courses at the Agricultural University.

Aardkunde, Delfstofkunde en Gesteentenleer - *Geology, Mineralogy and Petrography* (Dr D. J. Doeglas), Duivendaalselaan 2, Wageningen. Telephone 2363 (see p. 43).

Botanisch Graslandonderzoek - *Botanical Grassland Research* (Dr D. M. de Vries), Duivendaal 10, Wageningen. Telephone 2645 (see p. 65).

Graslandexploitatie - *Grassland Management* (Ir M. L. 't Hart), Duivendaal 10, Wageningen. Telephone 2645 (see p. 65).

Landbouwarchitectuur - *Farm Buildings* (Ir G. Pothoven), Duivendaalselaan 7, Wageningen. Telephone 2416.

Land- en Volkenkunde en de Indonesische Talen - *Social Anthropology and the Indonesian Languages* (Dr F. H. van Naerssen), Diedenweg 18, Wageningen. Telephone 2463 (see p. 89).

Plantensystematiek en Plantengeographie - *Plant Taxonomy and Phytogeography* (Dr J. G. B. Beumée), Rijksstraatweg 37, Wageningen. Telephone 2925 (see p. 32).

Plantkunde - *Botany* (Mrs Dr C. A. Reinders-Gouwentak), Arboretumlaan 4, Wageningen. Telephone 2594 (see p. 29).

Tropische Landbouwplantenteelt - *Tropical Agriculture* (Ir G. G. Bolhuis), Prof. Ritzema Bosweg 32, Wageningen. Telephone 2193 (see p. 87).

Veeteeltwetenschap - *Animal Husbandry* (Dr Th. de Groot), Duivendaalselaan 3A, Wageningen. Telephone 2473 (see p. 91).

4. ASSOCIATES

The following associates are giving courses at the Agricultural University.

Bijenteelt - *Beekeeping* (Dr Ir A. Minderhoud), Hesselink van Suchtelenweg 4, Wageningen. Telephone 2400.

Bloembollenteelt - *Bulb Growing* (Ir A. F. Vlag), Hereweg 345, Lisse. Telephone 3238 (K 2530).

Bloementeelt - *Floriculture* (B. Lemkes), Alphen aan de Rijn. Telephone 3068 (K 1720).

Boekhouden - *Bookkeeping* (K. Rinzema), Arboretumlaan 13, Wageningen. Telephone 2456.

Boomteelt - *Ornamental Trees and Shrubs* (S. G. A. Doorenbos), Kwekerijweg 2, 's-Gravenhage. Telephone 557020 (K 1700).

Deense en Zweedse Taal - *Danish and Swedish Languages* (Miss Dr S. Ferwerda). Narcislaan 6, Heelsum.

Engelse Taal - *English Language* (A. H. Limburg), Ribeslaan 8, Wageningen.

Franse Taal - *French Language* (Dr K. Sneyders de Vogel), Pieter Saenredamstraat 42 bis, Utrecht.

Fruitteelt - *Fruit Growing* (Prof. Ir A. M. Sprenger), Aug. Faliseweg 43, Wageningen. Telephone 2261 (Exp. Garden, Haarweg 18, Wageningen. Telephone 2810 (see p. 81).

Gezondheidsleer van de Mens en Verbandleer - *Human Hygiene and First Aid* (Dr H. A. Vogelenzang), Harlingerstraatweg 23, Leeuwarden. Telephone 5831 (K 5100).

Groententeelt - *Vegetable Growing* (Ir J. M. Riemens, Director of the Horticultural Experiment Station, Zuidweg 36A, Naaldwijk, Telephone 4545 and 4546 (K 1740), Pomonalaan 11, 's-Gravenhage. Telephone 338161 (K 1700).

Handtekenen - *Free-hand Drawing* (J. J. Haak), Hartenseweg 30, Bennekom.

Indonesisch Staats- en Strafrecht - *Constitutional and Criminal Law of Indonesia* (Prof. Mr J. E. Jonkers), Breestraat 76, Leiden. Telephone 26473 (K 1710).

Jacht en Wilddescherming - *Hunting and Game Protection* (Ir F. J. Appelman), Boreelstraat 7, 's-Gravenhage.

Kunstgeschiedenis - *History of Art* (Jhr. Dr J. S. Witsen Elias), Matthijssenhoutweg 12, Blaricum. Telephone 3803 (K 2953).

Nederlandse Volkskunde - *Ethnology of the Netherlands* (Dr Win. Roukens), Hesselink van Suchtelenweg 6A, Wageningen. Telephone 3138.

Pluimveeteelt - *Poultry Farming* (Ir P. Ubbels, Director State Poultry Institute), 't Spelderholt 9, Beekbergen. Telephone 241 (K 6766).

Portugese Taal - *Portuguese Language* (Dr H. L. A. van Wijk), Semarangstraat 47B, Groningen.

Spaanse Taal - *Spanish Language* (Prof. Mr Dr J. A. van Praag), Pinellaan 14, Santpoort-Station.

Veevoedingsleer - *Animal Nutrition* (Ir H. G. A. Leignes Bakhoven), P. J. Troelstraweg 114, Leeuwarden. Telephone 6948 (K 5100).

Visteelt - *Pisciculture* (Dr J. J. Schuurman), van Starckenborghstraat 81, Groningen. Telephone 28891 (K 5900).

Werktuigkunde en Werktuigkundig Tekenen - *Mechanical Engineering and Machine Drawing* (Ir A. J. Roelvink), Duivendaalselaan 7, Wageningen. Telephone 2416.

Zaadteelt - *Seed Production* (Ir G. T. Grooters), Ridderspoorweg 112, 's-Gravenhage. Telephone 397507 (K 1700).

III. Autonomous Institutes

(Official and Semi-official)

Bosbouwproefstation T.N.O. - Forest Research Station (Dr Ir H. van Vloten), "De Dorschkamp", Domeinweg 1, Wageningen. Telephone 2651 (see p. 87).

Centraal Bemestingsproefveld voor de Fruitteelt - Central Experiment Field for Manuring of Fruit Trees (Prof. Ir A. M. Sprenger), Haarweg 18, Wageningen. Telephone 2810 (see p. 81).

Centraal Instituut voor Landbouwkundig Onderzoek - Central Institute of Agricultural Research (Ir J. Wind), Duivendaal 10, Wageningen. Telephone 2645 (see p. 65).

Centraal Instituut voor Voedingsonderzoek T.N.O., Afdeling Graan-, Meel- en Broodonderzoek - Central Institute of Nutrition Research, Cereals Department (Drs H. M. R. Hintzer),

Lawickse Allee 15, Wageningen. Telephone 3146 (see p. 73).

Centrum voor Landbouwdocumentatie - Centre for Agricultural Documentation (Th. P. Loosjes), Rijksstraatweg 1A, Wageningen. Telephone 2660 (see p. 97).

Centrum voor Tuinbouwtechniek (C.T.T.) - Centre of Horticultural Engineering (subdivision of the Institute of Horticultural Engineering) Lage Steeg 12, Wageningen. Telephone 3041 (see p. 83).

Instituut voor Bewaring en Verwerking van Tuinbouwproducten - Institute for Research on Storage and Processing of Horticultural Produce (Ir A. K. Zweede), Haagsteeg 6, Postbus 17, Wageningen. Telephone 2045 (see p. 79).

Instituut voor Landbouwtechniek en Rationalisatie - Institute of Agricultural Engineering and Rationalization (Ir H. H. Postuma), Nieuweweg 30, Wageningen. Telephone 2147 (see p. 47).

Instituut voor Plantenziektenkundig On-

derzoek (I.P.O.) – *Institute for Phytopathological Research* (Dr J. G. ten Houten), Binnenhaven 4A, Wageningen. Telephone 2151 (see p. 51).

Instituut voor Tuinbouwtechniek – *Institute of Horticultural Engineering* (Dr Ir E. W. B. van den Muijzenberg), Grebbedijk 12, Wageningen, Telephone 2578 (see p. 81).

Instituut voor de Veredeling van Tuinbouwgewassen – *Institute of Horticultural Plant Breeding* (Dr O. Banga), Herenstraat 25, Wageningen. Telephone 2805, Experiment Garden 3141. (see p. 77).

Laboratorium voor Bemestingsonderzoek – *Plant Nutrition Research Laboratory* (Dr J. J. Lehr), Diedenweg 20, Wageningen. Telephone 2869 (see p. 41).

Laboratorium voor Landbouwscheikundig Onderzoek – *Laboratory of Research in Agricultural Chemistry* (Prof. Ir J. Hudig), Dr Boeslaan 21, Wageningen. Telephone 2732 (see p. 40).

Landbouwkundig Bureau voor Thomasslakkenmeel – *Agricultural Office for Basic Slag* (Ir H. J. Gerritsen), Hamelakkerlaan 14, Wageningen. Telephone 2188 (see p. 42).

Landbouw Fysisch Technische Dienst, L.P.T.D. – *Physico-Technical Service for Agriculture* (Ir C. T. de Wit), Duivendaalselaan 2, Wageningen. Telephone 2001 (see p. 35).

Nederlandse Algemene Keuringsdienst voor Landbouwzaden en Aardappelpootgoed (N.A.K.) – *General Netherlands Inspection Service for Seeds of Field Crops and for Seed Potatoes* (N.A.K.) (Ir J. Siebenga), Bosrandweg 5, Wageningen. Telephone 2317 (see p. 70).

Nederlands Landbouw Museum – *Netherlands Agricultural Museum*, Stationsstraat 1, Wageningen. (Dr M. de Waal, Lawickse Allee 98, Wageningen. Telephone 2969).

Nederlands Vlasinstituut – *Dutch Flax Institute* (Ir J. I. C. Butler), Rijksstraatweg 107, Wageningen. Telephone 2497 (see p. 68).

Plantenziektenkundige Dienst – *Plant Protection Service* (Dr C. J. Briejër), Oude Bennekomseweg 9, Wageningen. Telephone 2741 (see p. 54).

Rijksinstituut voor Rassenonderzoek van Landbouwgewassen – *Government Institute for Research on Varieties of Field Crops* (Ir J. K. Groenewolt), Hoogstraat 105, Wageningen. Telephone 2820 and 2803; 2802 (Lab.); 2720 (Mathematics); 288 (K 8379): Experiment Farm. (see p. 63).

Rijksproefstation voor Zaadcontrôle – *Government Seed Testing Station* (Dr Ir A. F. Schoorel), Binnenhaven 1, Wageningen. Telephone 3046 (see p. 72).

Station voor Maalderij en Bakkerij – *Experiment Station of Milling and Baking* (Dr J. van der Lee), Binnenhaven 2, Wageningen. Telephone 2474 (see p. 74).

Stichting Aardappelbewaring – *Foundation for Potato Storage* (Dr W. H. de Jong), Bosrandweg 3, Wageningen. Telephone 2908. After July 1st, 1953: Bornsesteeg, Wageningen (see p. 69).

Stichting voor Bodemkartering – *Soil Survey Institute* (Prof. Dr Ir C. H. Edelman), Bovenweg 7, Bennekom. Telephone 247 (K 8379). Postbus 37, Wageningen. (see p. 44).

Stichting Mechanisatie Centrum – *Centre of Agricultural Mechanization* (Secr.: Ir H. H. Postuma), Nieuweweg 30, Wageningen. Telephone 2147.

Stichting voor Plantenveredeling (S.V.P.) – *Foundation for Agricultural Plant Breeding* (Director: Prof. Dr Ir J. C. Dorst; Assistant Director: Ir G. Veenstra), Nude 66, Wageningen. Telephone 2942 (see p. 62).

Stichting Proeftuin voor Tabak – *Experiment Station of Domestic Tobaccos* (Ir R. van der Ven), Rijksstraatweg 53, Wageningen. Telephone 2338 (see p. 80).

Stichting Voorlichtingsdienst voor Superfosfaat van de Nederlandse Superfosfaat Industrie – *Advisory Office of the Netherlands Superphosphate Industry* (Ir H. A. Sissingh), Dr Boeslaan 21A, Postbus 24, Wageningen. Telephone 2133 (see p. 41).

It is interesting to note that in this town situated in the very interior of the country and devoted especially to the pursuit of agricultural sciences, the *Netherlands Ship Model Basin* (*Nederlands Scheepsbouwkundig Proefstation*, Haagsteeg 2, Wageningen) has been established. The firm nature of the geological substratum at Wageningen is very suitable for the experiments conducted in the basin.

IV. Various Agricultural Organizations

Centraal Orgaan ter Bevordering van de Veredeling en de Voorziening met Voortkweekingsmateriaal van Landbouwgewassen – *Central Organ for the Advancement of the Improvement and the Supplying of Propagating Material of Field Crops* (Secr.: Ir J. J. de Jong; Vice Secr.: Mr R. Elsinga), Bosrandweg 3, Wageningen. Telephone 2908.

Commissie ter Bevordering van het Kweken en het Onderzoek van nieuwe Aardappelrassen – *Commission for the Advancement of Potato Breeding* (Secr.: Ir J. A. Hogen Esch), Hoogstraat 105, Wageningen. Telephone 2820.

Commissie tot het houden van Bibliotheekdagen te Wageningen – *Committee for the holding of Library Days at Wageningen* (Secr.: Dr H. de Haan), Nude 66, Wageningen. Telephone 2942.

Commissie voor Rassenonderzoek ten behoeve van het Bedrijfschap voor Zaaizaad en Pootgoed voor Akker- en Weidebouw – *Commission for Research on Varieties on behalf of the Corporation for Seeds and Planting Material of Agricultural Crops and Meadows* (Secr.: Ir J. K. Groenewolt), Hoogstraat 105, Wageningen. Telephone 2820.

Fonds Landbouw Export Bureau 1916-1918 – *Agricultural Export Bureau Foundation* (Secr.: Prof. Dr Ir J. C. Dorst), Nûde 66, Wageningen. Telephone 2942.

Hesselink van Suchtelenfonds – *Hesselink van Suchtelen Foundation* (Secr.: Prof. Dr N. H. Kuiper, Duivendaalseweg 9A, Wageningen. Telephone 2218.

Internationaal Landbouwstudiecentrum – *International Agricultural Study Centre* (Prof. Dr Ir C. Coolhaas, Ir A. H. Haak), Prof. Ritzema Bosweg 32, Wageningen. Telephone 3173. Telegrams: INTAS.

Landbouwhogeschoolfonds – *Agricultural University Fund* (Secr.: Dr A. E. H. R. Boonstra), Rijksstraatweg 1A, Wageningen. Telephone 2341.

Nederlands-Belgische Vereniging van Graanonderzoekers – *Netherlands-Belgian Association of Cereal Research Workers* (Secr.: Dr S. Broekhuizen), Emmapark 31, Wageningen. Telephone 2593.

Nederlands Genootschap voor Landbouwwetenschap – *Dutch Society of Agricultural Science* (Secr.: Ir A. H. Haak), Prof. Ritzema Bosweg 32, Wageningen. Telephone 3173.

Nederlands Instituut van Landbouwkundig Ingenieurs – *Dutch Association of Agricultural Engineers* (Secr.: Ir P. Gaastra), Lawickse Allee 102, Wageningen.

Peulvruchten Studie Combinatie – *Association for the Study of Leguminous Crops* (Ir R. P. Lammers), Duivendaal 10, Wageningen. Telephone 2645.

Plaatsingsbureau voor Landbouwkundig Ingenieurs - *Employment Bureau for Agricultural Engineers* (Dr K. T. Wieringa), Rijksstraatweg 71, Wageningen. Telephone 2221.

Regelingscommissie voor de Nederlandse Landbouwweken - *Organizing Committee for Agricultural Congresses and Field Days at Wageningen* (Secr.: Ir D. W. Stolp), Duivendaalselaan 7, Wageningen. Telephone 2416.

Regelingscommissie voor de Tropische Landbouwdagen - *Organizing Committee for Conferences on Tropical Agriculture* (Secr.: Ir J. C. Friederich), Bowlespark 19, Wageningen. Telephone 2298.

Rijkscommissie voor de Samenstelling van de Rassenlijst voor Landbouwgewassen - *Government Committee for the Compilation of the List of Varieties of Field Crops* (Secr.: Ir J. K. Groenewolt), Hoogstraat 105, Wageningen. Telephone 2820 (see p. 63).

Ritzema Bosfonds - *Ritzema Bos Foundation*

(Secr.: Dr Ir H. N. Kluyver), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

Staringfonds - *Staring Foundation* (Secr.: Prof. Dr Ir G. Minderhoud), Diedenweg 18, Wageningen. Telephone 2462.

Stichting tot Behartiging van de Belangen van het Arboretum der Landbouwhogeschool (*Society supporting the Arboretum*), Pres.: Dr H. N. Kooiman, Rijksstraatweg 1A, Wageningen. Telephone 2571.

Stichting voor Coördinatie van Cultuur en Onderzoek van Broodgraan (Cocobro) - *Foundation for the Coordination of Cultivation and Research on Bread Grains* (Secr.: Dr S. Broekhuizen), Emmapark 31, Wageningen. Telephone 2593.

Stichting "Fonds ter Bevordering van de Veredeling van Landbouwgewassen" - *Foundation for the Advancement of the Breeding of Crop Plants* (Secr.: Dr H. de Haan), Nude 66, Wageningen. Telephone 2942.

Stichting voor de Landbouw, Commissie voor Voeder- en Weidebouw – *Dutch Agricultural Federation, Committee for Forage Plants and Grassland.*

Advisory Officer for the Production and Conservation of Fodder: Ir H. de Groot, Hamelakkerlaan 7, Wageningen. Telephone 2370.

Advisory Officer for Fodder Consumption: Ir S. Iwema, Lijsterbeslaan 11, Wageningen. Telephone 2960.

Studiekring voor Plantenveredeling – *Study Centre of Plant Breeding* (Secr.: Ir. D. Kloen), Nude 66, Wageningen. Telephone 2942.

Studiekring voor het Taalgebruik in de Landbouw – *Study Group for the Use of the Netherlands Language in Agriculture* (Secr.: F. Æ. Koekebakker), Rijkssstraatweg 1A, Wageningen. Telephone 2660.

Werkgroep Onderzoek Bestrijding Aardappelcystenaaltje T.N.O. – *Research Team for the Control of the Potato Root Eelworm T.N.O.* (Pres.: Dr J. G. ten Houten, Binnenhaven 4A, Wa-

geningen; Secr.: Dr Ir M. Oostenbrink, Oude Bennekomseweg 9, Wageningen).

Research Workers: Ir J. D. Bijloo, Ir C. A. Huijsman, Dr P. A. van der Laan, Ir J. C. de Man, Miss F. van der Tuin.

V. Some Offices

Consulentschap voor Veevoeding – *Advisory Bureau of Livestock Feeding* (Ir S. Iwema), Lijsterbeslaan 11, Wageningen. Telephone 2960.

Inspecteur van de Landbouw (Weide- en Voederbouwaangelegenheden) – *Superintendent of Agriculture (Meadows and Forage Crops)*, (Dr Ir H. J. Frankena), Hamelakkerlaan 7, Wageningen. Telephone 2370.

Agronomist: Ir J. B. Garretsen.

Rijksbijenteeltconsulent – *Advisory Officer for Apiculture* (Dr Ir A. Minderhoud), Hesselink van Suchtelenweg 4, Wageningen. Telephone 2400.

Rijkslandbouwconsulent voor Bodem- en Bemestingsvraagstukken – *Agricultural Advisory Officer in Matters relating to the Soil and Manuring* (Ir S. F. Kuipers), Bovenweg, 7 Bennekom. Telephone 247 (K 8379).
Agronomist: Ir J. Zandbergen.

Rijkslandbouwconsulent voor Landbouwwerktuigen – *Advisory Officer for Agricultural Machinery* (Ir P. W. Bakker Arkema), Nieuweweg 30, Wageningen. Telephone 2050.

Rijkslandbouwconsulent voor de Peulvruchtencultuur – *Agricultural Advisory Officer for Pulses* (Ir R. P. Lammers), Duivendaal 10, Wageningen. Telephone 2645.

Rijkslandbouwconsulent voor Zaadteelt – *Agricultural Advisory Officer for Seed Growing* (Ir B. H. Olthoff), Lijsterbeslaan 9, Wageningen. Telephone 2798.

Rijkslandbouwconsulentschap voor Plantenziekten – *Agricultural Advisory Officer for Plant Diseases* (Ir W. B. L. Verhoeven), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

Rijkslandbouwconsulent voor de Weidebouw – *Agricultural Advisory Officer for Grassland* (Ir H. de Groot), Hamelakkerlaan 7, Wageningen. Telephone 2370.

Rijkstuinbouwconsulent voor Bewaring van Tuinbouwproducten - *Advisory Officer for Storage of Horticultural Produce* (Ir T. van Hiele), Haagsteeg 6, Postbus 17, Wageningen. Telephone 2045 and 2046 (see p. 79).

Rijkstuinbouwconsulent voor Bodemaangelegenheden - *Horticultural Advisory Officer in Matters relating to the Soil* (Dr Ir F. W. G. Pijls), Bovenweg 7, Bennekom. Telephone 247 (K 8379). Under the direction of the Advisory Officer are working:

Ir P. R. den Dulk (soil fertility and organic manures in horticulture).

Ir J. van der Boon (manuring problems in horticulture).

Rijkstuinbouwconsulent voor Ziektebestrijdingsaangelegenheden - *Horticultural Advisory Officer for Plant Diseases and Pests* (Ir P. Hus), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

Assistant: Ir W. P. N. Vlasveld.

VI. Periodicals the Editorial Boards of which are located at Wageningen

Euphytica, *Netherlands Journal of Plant Breeding*, Managing Editor: Dr H. de Haan, Nude 66, Wageningen. Telephone 2941.

Landbouwdocumentatie (*Agricultural Documentation*), Secr.: Centrum voor Landbouwdocumentatie, Rijksstraatweg 1A, Wageningen. Telephone 2660.

Landbouwmecanisatie (*Agricultural Machinery Monthly*), Managing Editor: Ir A. Hadders, Bosrandweg 2, Wageningen. Telephone 2175.

Maandschrift voor Bijenteelt (*Monthly for Apiculture*), Editor: R. P. Groenveld, Grindweg 57, Wageningen. Telephone 2863.

Mededelingen van de Landbouwhogeschool (*Reports of the Agricultural University*), Secr.: Prof. Dr E. C. Wassink, Rijksstraatweg 72, Wageningen. Telephone 2817.

Mededelingen van de Nederlandse Algemene Keuringsdienst voor landbouwzaden en aardappelpootgoed (*Monthly Publication of the Seed Inspection Service, N.A.K.*), Managing Editor: Ir J. Siebenga, Bosrandweg 5, Wageningen. Telephone 2317.

Netherlands Journal of Agricultural Science. Secr.: Mrs Dr J. A. Frahm-Leliveld, Postbus 27, Wageningen. (Laboratorium voor Tropische Landbouwplantenteelt, Prof. Ritzema Bosweg 32, Wageningen. Telephone 2193).

Tijdschrift over Plantenziekten (*Journal of Plant Diseases*), Secr.: Dr H. J. de Fluiter, Instituut voor Plantenziektenkundig Onderzoek, Binnenhaven 4A, Wageningen. Telephone 2151.

VII. Agronomists living at Wageningen, not on the permanent staff of the Agricultural University or of the Institutes

Ir J. P. A. van den Ban, Adj. Ing., toegevoegd aan de Inspecteur van de Landbouw (Akkerbouw-aangelegenheden) (*Technical Officer*), Prof. Ritzema Bosweg 20, Wageningen. Telephone 2748.

Dr J. R. Beversluis, Houtvester Staatsbosbeheer (*Forest Conservator Government Forest Service*), Nassauweg 26, Wageningen. Telephone 2125.

Ir P. A. Blijdorp, Bedrijfsingenieur, toegevoegd aan de Inspecteur van het Landbouwkundig Onderzoek, Afd. Akker- en Weidebouw, Ministerie L.V.V. (*Technical Officer*), Arboretumlaan 7, Wageningen. Telephone 2738 and 2645.

Ir J. Bon, Wetensch. medewerker T.N.O. (*Research*

Officer of the Netherlands Central Organization for Applied Scientific Research T.N.O., Secretary of the Provincial Section of the Working Party for the Research on the Hydrological Conditions in Cultivated Areas T.N.O., Groningen), Nude 52, Wageningen. Telephone 3075.

Dr Ir P. Buringh, Lector in de bodemkunde en de bodemkundige luchtfoto-interpretatie aan het Internationaal Opleidingscentrum voor Luchtkartering, Kanaalweg 3, Delft (*Lecturer in soil science and pedological photo interpretation, International Trainings Centre for Aerial Survey, Delft*), Goudenregensstraat 2, Wageningen. Telephone 2650.

Ir H. Corver, Adj. Ing. Cultuurtechnische Dienst (*Service for Draining and Reclamation*), Buissteeg 8, Wageningen.

J. Edelkoort, Landbouwkundige Albatros Superfosfaatfabrieken N.V. (*Agronomist Albatros Superphosphate Works Ltd*), Oranjelaan 21, Wageningen. Telephone 2282.

Stichting voor de Landbouw (*Assistant Secretary Dutch Agricultural Federation*), Sleedoornplantsoen 15, Wageningen. Telephone 2256.

Ir C. de Graaf, Ing. Cultuurtechn. Dienst (*Agronomist Service for Draining and Reclamation*), Kamperfoelielaan 17, Wageningen. Telephone 3137.

Ir G. A. van Houten, Ingenieur Afdeling Algemene Zaken v. d. Directie v. d. Landbouw, gedetacheerd bij de Afd. Soc. en Econ. Geografie en Soc. Statistiek der Landbouwhogeschool om een onderzoek te doen naar de ontwikkeling en de betekenis van het landarbeidersgrondgebruik in Nederland (*Research into the development and importance of the part-time farming of the labourers in the Netherlands*), Diedenweg 18, Wageningen. Telephone 2462.

Ir E. C. Jansen, Staatsbosbeheer Afd. Zaden en Plantsoenen, (*Government Forest Service, Dep. Seeds and Parks*), Sleedoornplantsoen 9, Wageningen. Telephone 3126.

Ir G. J. Klompe, Secr. Geldersche Mij. van Landbouw (*Secretary Guelders Agricultural Society*), Lawickse Allee 94, Wageningen. Telephone 2374.

26 Ir P. R. Everaars, Adj. Secr. in alg. dienst van de

Ir F. F. R. Koenigs, Wetensch. Ambt. "Plan Tendeloo" (*Agronomist "Project Tendeloo"*), Rijksstraatweg 79, Wageningen.

Ir J. G. Modderman, Adj. ing., Bedrijfslaboratorium voor Grond- en Gewasonderzoek (*Laboratory for Soil Testing and Plant Analysis*), Oude Bennekomseweg 156, Wageningen. Telephone 3009.

Dr Ir J. G. Ossewaarde, *Secretary, Netherlands Advisory Board for the Mechanization of Agriculture in the Overseas Territories*, Prof. Ritzema Bosweg 32, Wageningen. Telephone 2193.

Ir J. Walrave, Landbouwkundige, Shell Nederland N.V. (*Agronomist Shell Nederland N.V.*), Hinkeloordseweg 7, Wageningen. Telephone 2263.

Ir G. G. Reitsma, Oranjelaan 13, Wageningen.

Ir J. van Schouwenburg, Wetensch. Ambt. "Plan Tendeloo" (*Agronomist "Project Tendeloo"*), Markt 2, Wageningen.

Dr Ir W. S. Smith, Rijksstraatweg 81, Wageningen. Telephone 2751.

VIII. Retired Technical officers of the Agricultural University and the Institutes, living at Wageningen

Miss H. L. G. de Bruyn, Hinkeloordseweg 5, Wageningen. Telephone 2224.

Dr W. J. Franck, Rijksstraatweg 79, Wageningen. Telephone 2488.

H. J. van Houten, Rijksstraatweg 43, Wageningen. Telephone 2606.

Dr H. A. A. v. d. Lek, Bosrandweg 7, Wageningen. Telephone 2535.

Miss M. J. Mulder, Bowlespark 25, Wageningen.

Ir M. W. Polak, Wilhelminaweg 10, Wageningen. Telephone 2076.

Dr R. Verschuur, Rijksstraatweg 29, Wageningen.

L. T. Wilhelmy van Hasselt, Rijksstraatweg 86, Wageningen. Telephone 2796.

Dr K. Zijlstra, Prof. Ritzema Bosweg 36. Wageningen. Telephone 2466.

The retired professors are listed on p. 12

IX. Description of the Institutions

This chapter is intended to bring the working program of the laboratories and institutes to the notice of the visiting travelers. The members of the staffs are named and photos of the buildings are given, to keep fresh the memory of the visit to Wageningen. It is our hope that these descriptions and indications will further the contact with similar foreign institutes.

A list of the names of the laboratories and institutes described below can be found on page 1. An alphabetical list of the persons mentioned in the guide has been added (see p. 103).

On the inside back cover will be found a plan of Wageningen showing the location of the institutions (see explanation of the plan on p. 108).

Laboratorium voor Algemene Plantkunde
- *Laboratory of General Botany* (Director: Prof. Dr
E. Reinders), Arboretumlaan 4, Wageningen. Tele-
phone 2594.

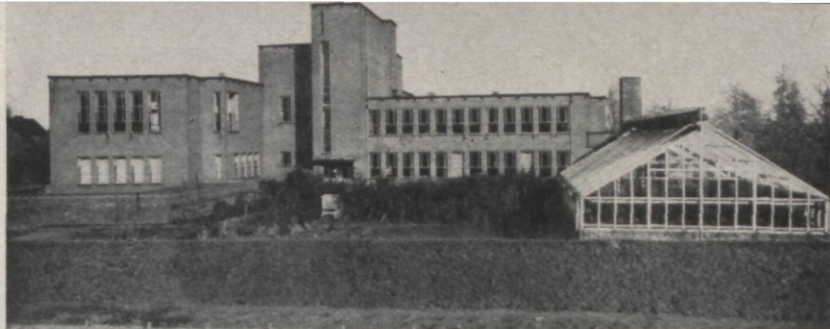
The laboratory is a Division of the Agricultural
University. Lectures and laboratory teaching in
general plant anatomy, wood and bark anatomy
and plant physiology are given for undergraduates
and graduates.

The research work comprises wood anatomical
and plant physiological problems.

Investigations in plant physiology are carried out
by Mrs Dr C. A. Reinders-Gouwentak with the as-
sistance of advanced students. Wood anatomical
work is undertaken by Mrs Dr C. A. Reinders-
Gouwentak, Miss Dr J. de Zeeuw, Ir J. F. Rijdsijk
(research fellow of the L.E.B. Foundation, Wage-
ningen), and advanced students.

Courses and Guidance of Research work: Prof.
Dr E. Reinders, Mrs Dr C. A. Reinders-Gouwentak.
Assistants: Miss Dr J. de Zeeuw (Botanist), two grad-
uate botanists (vacant), seven advanced students.

Research in progress:



Laboratory of General Botany

Effects of natural and synthetic growth hormones on
cambial activity, on tylose development and on the
abscission layer.

Effects of light and temperature on the development,
flowering and fruiting of the tomato.

Growth hormone determination with the *Avena* as-
say.

The rhizocaline problem. Root formation and bud
development in *Populus* cuttings.

Structure of wood rays.

Hand-lens and microscopical descriptions of Suri-
nam woods.

Laboratorium voor Plantenphysiologisch
Onderzoek - *Laboratory of Plant Physiological
Research* (Director: Prof. Dr E. C. Wassink), Rijks-
straatweg 72, Wageningen. Telephone 2817.

This laboratory is a Division of the Agricultural
University. Special physiological problems are stud-
ied here by the staff and by advanced students and
lectures and colloquia are held. (The general course
in plant physiology is provided by the Laboratory of
General Botany.)

The Laboratory of Plant Physiological Research
is equipped with rooms for constant temperatures
from -5°C to $+35^{\circ}\text{C}$. Constant temperatures com-
bined with daylight can be supplied in specially con-
structed glasshouses.

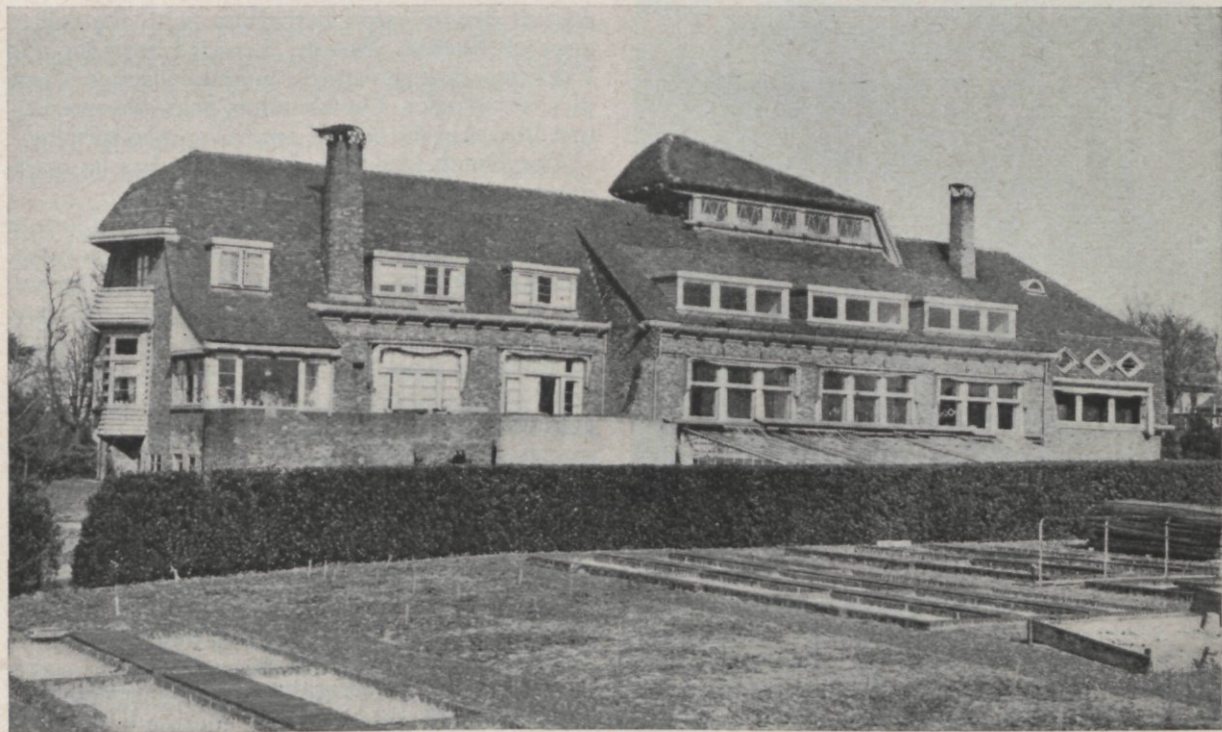
The principal subjects now being studied are:
influence of temperature on development and
flowering of bulb plants; development and energy
balance of plants grown under conditions of re-
gulated temperature and illumination; studies on
the mechanism and the energy yield of photosyn-
thesis in microorganisms and higher plants in con-
nection with the problem of solar energy conversion
and in relation to racial diversity; studies in photo-

periodism and vernalization in connection with
quantity and quality of light and in relation to meta-
bolism; formative influences of light; metabolism
of compact organs, e.g. potatoes in connection with
problems of storage.

Director: Prof. Dr E. C. Wassink.

Research: Prof. Dr E. C. Wassink, Mrs I. Olivier-
Luyten, Miss Dr A. M. Hartsema, Dr C. J. P.
Spruit (chemist), Ir J. F. G. M. Wintermans, Ir
J. A. J. Stolwijk, J. Rombach (assistant), Miss Ir
S. Wagenaar, J. Bensink (with subvention of the
National Council for Fundamental Scientific Re-
search (Z.W.O.)), Dr T. Alberda (grassland in-
vestigations), Ir P. Gaastra (Agricultural Section
T.N.O.), Ir J. F. Bierhuizen (Mekog).

Potato Research: Miss Ir N. Krijthe, Ir F. Spierings.
Research on Solar Energy Conversion (with sub-
vention of the Netherlands Central Organization
for Applied Scientific Research (T.N.O.)): Dr B.
Kok.



Laboratory of Plant Physiological Research



*Laboratory of
Plant Taxonomy
and Geography*

*Entomological
Laboratory*

Laboratorium voor Plantensystematiek en -geographie – *Laboratory of Plant Taxonomy and Geography* (Director: Prof. Dr H. J. Venema), Rijksweg 37, Wageningen. Telephone 2925, private telephone Prof. Venema: 2785.

Lectures are given on systematics, phytogeography, phytosociology and dendrology.

The Herbarium especially relates to the wild flora of the Netherlands and of Indonesia, but attention is also paid to the temperate zone. There is an im-

portant dendrological herbarium, with the collections of Koehne, Baenitz, Leonard Springer and Valckenier Suringar and the unique collection of tropical teratologica. The laboratory possesses an excellent library in the field of dendrology and sociology.

The Dutch Dendrological Society has its headquarters in this laboratory.

The Arboretum to which also belongs the former estate "Belmonte" (17 ha), now being laid out, serves in the first place for instructional purposes, but it is also important to landscape architects, dendrologists and nurserymen. The aim is to bring together the most valuable ornamental plants, resistant to the winters of this region. Studies are also undertaken to limit the varietal range of certain species to the most desirable types.

Staff: Instruction to students: Prof. Dr H. J. Venema, Dr J. G. B. Beumée.

Taxonomical Research: Prof. Dr H. J. Venema (ornamental plants), Dr J. G. B. Beumée (tropical plants), Dr V. Westhoff (Bryology).

Sociological Research: Prof. Dr H. J. Venema, Dr V. Westhoff.

Assistants: H. W. Renkema, L. Bos, Miss A. C. Corts and H. Doing Kraft.

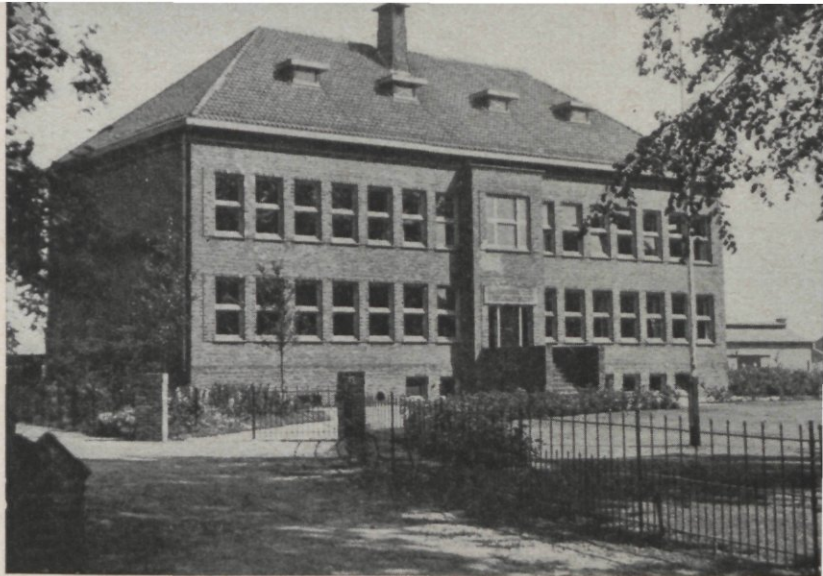
Laboratorium voor Erfelijkheidsleer—*Laboratory of Genetics* (Director: Prof. Dr R. Prakken),
Rijksstraatweg 53, Wageningen. Telephone 2338.

The laboratory of Genetics is a Division of the Agricultural University, and the training of students constitutes an important part of its working program. The various genetical and cytological investigations are conducted partly in collaboration with students.

The genetical investigations are mainly concerned with *Nicotiana* (form, size and number of the leaves), *Phaseolus* (color genes and their anatomical and chemical action) and *Matthiola* (branching; flower color and doubleness). In poultry the cross between Noordhollandse Blauwe and Barnevelder is studied, especially in connection with auto-sexing problems.

Grafting experiments with *Nicotiana* and *Solanum* varieties and species are being undertaken in order to verify the results concerning vegetative hybridization claimed by Lysenko.

The cytogenetical investigations are principally concerned with the effects of inbreeding in *Secale*. Polyploidization experiments are carried out with *Populus*, *Forsythia*, *Solanum* and *Salmo* (trout).



Chromosomes of wild populations are studied in our native orchids and in a few grass species.

The large hothouses are used for experiments with maize, tobacco, tomato, potato, Jerusalem artichoke, etc.

Staff:

Director: Prof. Dr R. Prakken.

Botanist: Drs G. J. F. Becker.

*Laboratory
of Genetics*



Microbiological Laboratory

Laboratorium voor Microbiologie – *Microbiological Laboratory* (Director: Prof. Dr Jan Smit), Hesselink van Suchtelenweg 4, Wageningen. Telephone 2771.

One of the 27 laboratories of the Agricultural University.

The well furnished laboratory serves educational as well as research purposes. It is situated in a garden, where the students and research workers have at their disposal soils of different degrees of acidity and variously manured plots.

Microbiological problems concerning soil, milk, water and technical products are investigated.

Special topics are: occurrence of Bang's disease as detected in fresh milk by the ring reaction; study of the rôle of microorganisms in the digestion in the rumen of herbivora; decomposition of chitin in nature; detection of deficiency diseases (Cu, Mg, Mn) by microbiological and chemical methods; investigations on the microbes active in the decomposition of freshly fallen leaves.

Students follow a practical course in general microbiology of 4 weeks. More advanced students are working during 4–6 months on special subjects.

Staff:

Instruction to students: Prof. Dr Jan Smit.

Agronomist: Dr Ir K. T. Wieringa.

Assistant: Drs H. Veldkamp.

Guest workers: Miss Dr M. P. Löhnis (deficiency diseases), Ir W. H. Beyer (microflora of the rumen).

In this building is located the office of the Adviser for Apiculture (Dr Ir A. Minderhoud). Telephone 2400.

Laboratorium voor Natuur- en Weerkunde
– *Laboratory of Physics and Meteorology* (Director:
Prof. Dr W. R. van Wijk), Duivendaalselaan 2,
Wageningen. Telephone 2001.

Undergraduate courses in Physics, Meteorology and Climatology; graduate courses in Physical Unit Operations for Chemical Engineering and Electro-technics.

- A. Research on underground movement of water in liquid and in gaseous state, humidity and temperature in the soil and the air close to the surface.
- B. Another main line of research concerns the physics of the industry based upon agricultural products. Unit physical operations, solvent extraction, diffusion, distillation, and heat transmission are studied.

Regular observations and registrations are made of meteorologic variables, important to agriculture (solar radiation, temperature, air and soil humidity, wind velocity and direction, precipitation).

Connected with the laboratory is the *Physico-Technical Service for Agriculture* (Landbouw Phy-



*Laboratory of Physics and Meteorology – Laboratory of Regional Soil Science,
Mineralogy and Geology*

sisch Technische Dienst, L.P.T.D.). This service renders assistance to various agricultural institutes in the Netherlands. It acts as a consulting body for research in which problems of physics are involved and gives advice in such questions as the construction or purchase of apparatus.

An electron microscope, property of the Agricultural University and entrusted to the care of the

L.P.T.D., is at disposal of all scientists doing agricultural research.

Staff:

Laboratory:

Director: Prof. Dr W. R. van Wijk.

Chemical Engineer: Ir A. S. Vos.

Physicist-Meteorologist: Dr D. A. de Vries.

Research associates: Ir H. A. C. Thijssen, Ir R. A. H. van Duin, L. v. d. Berg (F.O.M.).

*Physico-Technical Service for Agriculture
(L.P.T.D.):*

Head: Ir C. T. de Wit.

Physicist electron microscope: Miss Dra C. v. d. Scheer.

Physicist electronics: Drs E. van Vollenhoven.

Assistants:, L. Admiraal.

Laboratorium voor Organische Chemie –
Laboratory of Organic Chemistry (Director: Prof. Dr H. J. den Hertog), Herenstraat 16, Wageningen.
Telephone 2141.

This Laboratory is a division of the Agricultural University. Undergraduate lectures are given on fundamentals of organic chemistry; graduate courses on the chemical side of important biological processes.

A practical course is given to graduate students in analytical and synthetical methods in the field of organic chemistry.

Investigations by advanced students are connected with the research work of the staff or relate to the organic chemical side of problems which are studied in other laboratories of the Agricultural University.

Research work by the staff embraces:
Synthesis of heterocyclic compounds with characteristic biochemical properties,
Synthesis of derivatives of tropolone,
Investigations into the composition of proteins that are found together with alkaloids in plants,
Studies of reaction mechanisms of free radical processes and molecular rearrangements (with the aid of tracers).

Staff:
Director: Prof. Dr H. J. den Hertog.
Chemist: Dr G. B. R. de Graaff.
Assistants: C. R. Kolder and Ir H. W. J. Ragetli.

Laboratorium voor Fysische en Colloid-
chemie – *Laboratory of Physical and Colloid Che-
mistry* (Director: Prof. Dr H. J. C. Tendeloo),
Herenstraat 20, Wageningen. Telephone 2141.

This laboratory, which forms part of the Agri-
cultural University, provides training in inorganic
chemistry for first year students. The exercises bear
upon qualitative and quantitative analysis (titration
and gravimetry). More advanced students have the
opportunity to perform laboratory work in physical
and colloid chemistry (pH determinations, conduc-
tivity, viscosity, adsorption, stability of colloidal
solutions, etc.).

In addition graduate students carry out special
research, as far as possible on new subjects, and
sometimes in relation with the investigations being
pursued by the director and his assistants.

Among the subjects under investigation are: the
potential of roots in relation to the intake of ions
by the plants; the properties of adsorbed acids and
bases; the properties of glass electrodes and other
electrodes; potentiometric titration of proteins; etc.

Lectures are given on various topics in the fields
of physical and colloid chemistry.

The Director is also in charge of the Experiment Station for the Technology of Potatoes. This Station (at Groningen) performs research on the manufacturing of various products from potatoes, such as potato flour, dextrine, glucose. Investigations in progress aim at the transformation of the residue, especially the fibers, into more valuable products.

Staff:

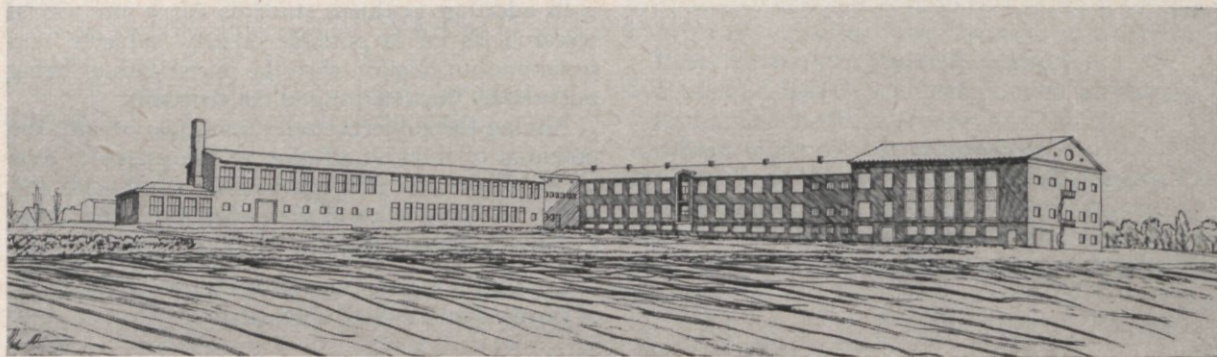
Director: Prof. Dr H. J. C. Tendeloo.

Assistants: Ir A. E. Mans and Drs F. W. Broekman.

Laboratorium voor Technologie – *Technological Laboratory* (Director: Prof. Dr Ir H. A. Leniger), Herenstraat 21, Wageningen. Telephone 2638.

This laboratory is a division of the Agricultural University. It deals with the processing of agricultural, horticultural and forest products. The activities of the institute are divided between instruction to advanced students and research. Special attention is paid to the industrial chemistry and chemical engineering aspects of the technological problems.

A new laboratory is in course of construction.



Left: *Technological Laboratory.* Right: *Laboratory of Agricultural Chemistry*

Laboratorium voor Landbouwscheikunde
– *Laboratory of Agricultural Chemistry* (Director:
Prof. Dr A. C. Schuffelen), Herenstraat 18, Wageningen. Telephone 2141.

The laboratory provides facilities for advanced students for the study of the theoretical and laboratory aspects of Soil Chemistry, Soil Physics and Soil Fertility.

A course of lectures (2 hours a week during 3½ years) on the above mentioned branches of Soil Science is given by the director, while the assistants are responsible for the instruction of the students during the work in the laboratory. (This lasts about 6 months and includes routine determinations and special research).

The following problems are under investigation by the director and his assistants: soil and plant analyses; the genesis of clay minerals; soil structure; the formation of humus; spectral analysis; the significance of the ratio of cations in plant nutrition (water cultures, pot and field experiments).

Staff:

Director: Prof. A. C. Schuffelen.

Assistants: Dr Ir H. A. Middelburg, Ir J. W. van Dijk, Drs A. H. Bloksma, Ir A. R. P. Janse, Ir L. J. B. Zeegers, R. Arnold Bik, Ir K. Dilz.



Laboratory of Research in Agricultural Chemistry

The work of the laboratory is concerned mainly with the study of the soil in connection with plant nutrition.

Research on fertilizers is done in collaboration with the laboratories of the Netherlands Superphosphate Industries and other laboratories.

Laboratorium voor Landbouwscheikundig
Onderzoek – *Laboratory of Research in Agricultural Chemistry* (Director: Prof. Ir J. Hudig), Dr
Boeslaan 21, Wageningen. Telephone 2732.

Stichting Voorlichtingsdienst voor Superfosfaat van de Nederlandse Superfosfaat Industrie - *Advisory Office of the Netherlands Superphosphate Industry* (Ir H. A. Sissingh), Dr Boeslaan 21A, Postbus 24, Wageningen. Telephone 2133.

The Advisory Office for Superphosphate has been founded by the Netherlands Superphosphate Industry as a research centre for the application of superphosphate in agricultural practice.

Its activities comprise:

1. Research relating to fertilizer problems with special emphasis upon the efficacy of phosphoric acid in combination with other nutrients;
this by means of:
 - a. experiments in pots (greenhouse),
 - b. field experiments,
 - c. chemical laboratory investigations (soils and plants).
2. Advisory work (information) for farmers and market gardeners.

Staff: Ir H. A. Sissingh, leader.

Laboratorium voor Bemestingsonderzoek - *Plant Nutrition Research Laboratory* (Director: Dr J. J. Lehr), Diedenweg 20, Wageningen. Telephone 2869.

The Plant Nutrition Research Laboratory was established by the Chilean Nitrate Agricultural Service as a research centre for the organization and for the promotion of investigations in the field of fertilizers and plant nutrition.

Its activities comprise:

1. Research relating to fertilizer problems in temperate, tropical and sub-tropical zones with special emphasis upon the nitrogen nutrition of the plant and the nitrogen economy of the soil.
This objective is pursued by means of:
 - a. pilot experiments in pots (greenhouse);
 - b. field experiments with fertilizers;
 - c. chemical laboratory investigations (soils and plants).
2. Advisory work.

Staff:

Director: Dr J. J. Lehr.

Advisory work: Ir M. Rosanow.

Research worker: Ir J. M. Wybenga.

Chief analyst: J. Ch. v. Wesemael.

Landbouwkundig Bureau voor Thomas-slakkenmeel – *Agricultural Office for Basic Slag*
(Director: Ir H. J. Gerritsen), Hamelakkerlaan 14,
Wageningen. Telephone 2188.

The Agricultural Office for Basic Slag, established in 1947, is a foundation of the Belgian, Luxemburg and French steel industry, which delivers the basic slag as a by-product of the Thomas steel manufacturing process.

This office represents a research and information centre in the Netherlands for the application of basic slag (Thomas phosphate) in agricultural and horticultural practice.

Its activities embrace:

1. Research work relating to fertilizer problems with special emphasis upon phosphoric acid, soil acidity, magnesium and trace elements, by means of:
 - a. Experiments in the field.
 - b. Experiments in pots.
 - c. Chemical laboratory investigations in co-operation with other institutes.
2. Information work for the benefit of the Dutch farmers and market gardeners, by means of:

- a. Demonstrations in the field.
- b. Brochures.
- c. Articles.
- d. Shows.
- e. Lectures.
- f. Films.

Laboratorium voor Regionale Bodemkunde, Mineralogie en Geologie – *Laboratory of Regional Pedology, Mineralogy and Geology* (Director: Prof. Dr Ir C. H. Edelman), Duivendaalselaan 2, Wageningen. Telephone 2363.

The laboratory forms part of the Agricultural University. Courses in geology and mineralogy are given to freshmen. Advanced students take courses in general pedology, regional pedology of the Netherlands, tropical pedology and social soil science. Field work is also included.

The scientific research embraces aspects of sedimentary geology (mineralogy, granulometry, the origin and distribution of sediments), x-ray studies of soil minerals.

Staff:

General, Regional and Social Soil Science: Prof. Dr Ir C. H. Edelman.

Geology, Mineralogy and Sedimentary Petrology: Dr D. J. Doeglas.

Physico-chemical and x-ray research: Dr J. Ch. L. Favejee.

Course in mineralogy and petrological research on sediments: Drs D. J. G. Nota.

Practical courses in pedology and research soil science: Ir K. J. Hoeksema, Ir A. Jongerius and Ir N. M. de Vos.

Stichting voor Bodemkartering - *Soil Survey Institute* (Director: Prof. Dr C. H. Edelman, professor of geology and pedology), Bovenweg 7, Bennekom. Telephone 247 (K 8379). Postbus 37, Wageningen.

The Institute was founded in 1945. Several sections of the Ministry of Agriculture and of other interested ministries are represented in the Board.

The activities of the Institute have a twofold purpose:

1. Drawing up soil maps of the areas where pedological data are required for making agricultural, hydrographical and urban alterations, etc.
2. Drawing up a soil map of the whole country at a scale of 1 : 25,000 and instituting scientific inquiries.

Several reports and bulletins have already been published concerning pedological maps and maps classifying areas. Most of them have an English summary.

Staff:

Director: Prof. Dr C. H. Edelman.

Vice-director: Z. van Doorn.

Editor: Ir G. G. L. Steur.

Pedologists: Ir J. Bennema, Ir P. du Burck, Ir J. Cnossen, Ir D. van Diepen, Ir P. J. Ente, Ir J. C. F. M. Haans, Ir B. van Heuveln, Ir J. van der Linde, Jhr Ir J. E. M. van Nispen tot Pannerden, Ir L. J. Pons, Ir R. P. H. P. van der Schans, Dr Ir J. Schelling, Ir L. A. H. de Smet, Ir F. Sonneveld, Dr Ir J. S. Veenenbos, Ir I. S. Zonneveld.

Geologist: Dr R. D. Crommelin, G. C. Maarleveld.

Geographer: Mrs Dr A. W. Edelman-Vlam.

Archaeologist: Dr P. J. R. Modderman.

Technician: J. J. Jantzen.

Administrator: J. G. van Hall.

The agricultural and horticultural advisory officers dealing with questions of soil and manuring have their headquarters in this building.

Agricultural advisory officer: Ir S. F. Kuipers.

Horticultural advisory officer: Dr Ir F. W. G. Pijls;

Horticultural scientist in charge of organic manuring: Ir P. R. den Dulk.

Laboratorium voor Weg- en Waterbouwkunde – *Laboratory of Road Construction and Water Engineering* (Director: Prof. Ir W. F. Eijssvoogel), Herenstraat 18, Wageningen. Telephone 2141.

Undergraduate courses are given in Hydraulics, and graduate courses in Irrigation, Road Construction and Water Engineering. Special courses cover the fields of Statics and Hydrology.

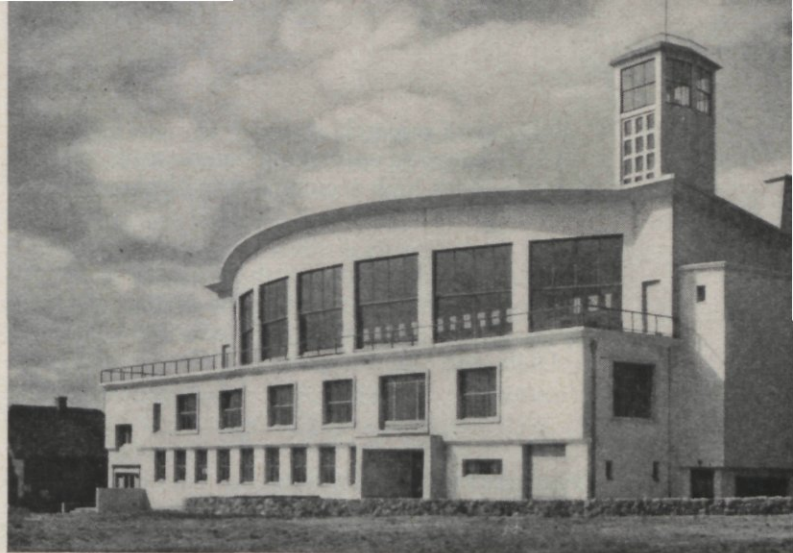
Particular attention is given to engineering problems encountered in tropical and subtropical countries.

In 1953 the hydraulic laboratory, the equipment of which was destroyed during the war, will be reconstructed. A flume will be installed, in order that hydraulic phenomena can be demonstrated to the students.

The Division is in close contact with the “Stichting voor de ontwikkeling van Mechanische Landbouw in Suriname” (Foundation for the development of Mechanized Agriculture in Surinam), which is starting a large reclamation scheme in that part of South America.

Director: Prof. Ir W. F. Eijssvoogel.

Assistants: J. H. van Mechelen, Ir J. M. Geense.



Laboratorium voor Landmeetkunde – *Laboratory of Surveying* (Director: Prof. A. Kruidhof) Hesselink van Suchtelenweg 6, Wageningen. Telephone 2643.

*Laboratory of
Surveying*

Courses and exercises in elementary and higher surveying, leveling, maps and map projections, photogrammetry, land use and re-allotment.

The new laboratory has recently been inaugurated.

Subjects of research are:

Tacheometrical surveying; measuring of long distances with high accuracy; graphical methods of reckoning.

There is a close contact with the Cadastral Survey, the Topographical Service of the Netherlands, the Laboratory of Geodesy of the Technical University at Delft and the International Centre of Photogrammetry.

Staff:

Director: Prof. A. Kruidhof.

Surveyor: G. A. van Wely.

Assistant: Ir J. C. O. van Gijsen.

Afdeling Cultuurtechniek – *Division of Land Drainage and Land Improvement* (Director: Prof. Ir F. Hellinga), Duivendaalselaan 7, Wageningen. Telephone 2416.

The Division of Land Drainage and Land Improvement is a section of the Agricultural University. Undergraduate and graduate courses in drainage, reclaiming of lands and re-allotment are given by Prof. Ir F. Hellinga. The principal subjects of research are the run-off of polders, the hydrology of peat land and re-allotment (Assistant Ir J. W. de Zeeuw).

Close collaboration is maintained with the Section of Horticulture of the Department of Agriculture. On behalf of this section guest worker Ir D. W. Stolp is studying the water requirement of horticultural crops.

A regular contact exists with the Service for Drainage and Reclamation (Cultuurtechnische Dienst), the Netherlands Central Organization for Applied Scientific Research, (T.N.O.) and other institutions.

Instituut voor Landbouwtechniek en Rationalisatie - *Institute of Agricultural Engineering and Rationalization* (Director: Ir H. H. Postuma), Nieuweweg 30, Wageningen. Telephone 2147.

The Institute of Agricultural Engineering and Rationalization, established in 1949, is a foundation in which the Ministry of Agriculture and the Dutch Agricultural Federation participate.

The work of the Institute covers the whole field of agricultural machinery and tractors. Mechanization of agriculture is studied with the object of furthering the development of suitable machinery for Dutch conditions.

For this purpose a 500 acres testing farm is attached to the Institute.

A close collaboration exists with all bodies and corporations, interested in farm machinery, especially with the division of Agricultural Engineering of the Agricultural University and the Agricultural Machinery Advisory Service. The inventory of the Institute is available to the students. Prof. Ir G. Riemer teaching agricultural machinery at Wageningen is a member of the board.

Publications on research performed by the Institute will be sent to any interested party.

A laboratory is being built.

Staff: Director: Ir H. H. Postuma.

Deputy-Director and Research Department:

Ir L. H. Huisman.

Research station: R. B. Boelman.

Economics: Ir W. C. van der Meer, Drs R. A. de Widt.

Labour management: Ir A. Moens.

Tractors, waggons and tillage machinery: Ir J. C. Glerum.

Potato machinery and spraying equipment: Ir J. Crucq.

Silage and hay making machinery, pasture management machinery: Ir P. Wiertsema.

Beet machinery, seeding equipment and fertilizer distributors: E. J. A. Hoogland.

Milking machinery: P. J. J. van Helden.

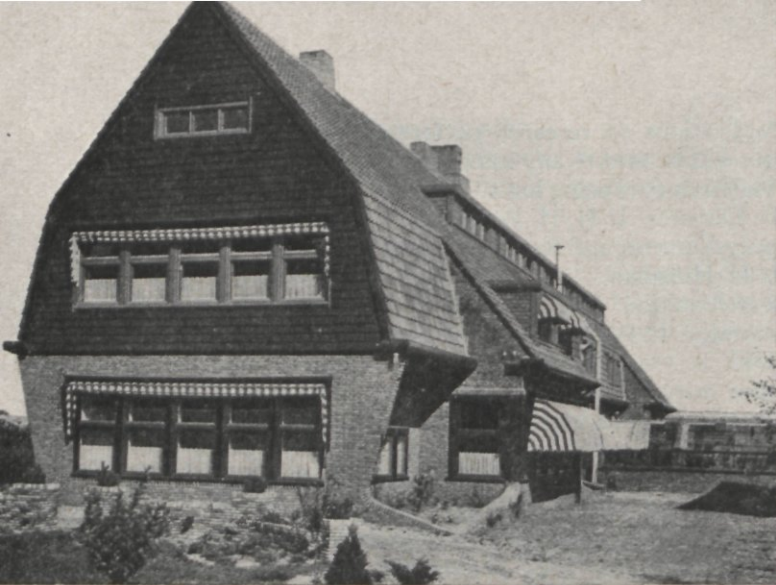
Threshing machinery: P. H. de Haan.

Manure handling equipment: H. R. Poelma.

Mechanization on small farms: Ir W. P. M. Corstiaensen and Ir F. Coolman.

Farm buildings: Ir A. Bentum and Ir H. Berghoef.

Technical matters and workshop: C. C. Jongebreur.



*Laboratory of
Bulb Research
at Lisse*

Laboratorium voor Bloembollenonderzoek
– *Laboratory of Bulb Research* (Director: Prof. Dr
E. van Slogteren), Lisse, South Holland, Telephone
3335 (K 2530).

Though the director occasionally gives lectures at
Wageningen, the main task of this laboratory consists in studying problems connected with the cul-

tivation and the export of bulbs. The control of parasitic and physiological diseases is studied and much attention is paid to improve flowering of the bulbs in the importing countries, to shipment, to treatment aiming at the amelioration of flowering in the southern hemisphere.

For these researches the situation in the centre of the bulb growing district has been of vital importance. The bulb growers have always recognized the value of scientific research and vigorously assisted in the construction and the equipping of the laboratory, with valuable installations for constant temperature and humidity, an ultra centrifuge and an electron-microscope.

It should be mentioned that the virus research of this laboratory extends to sugar beet, potatoes and Dahlia's. The serological diagnosis of virus diseases forms an important part of these investigations. In 1947 a special section for serological studies was added. A laboratory for this research has been built in 1950.

A fourth building with hothouses, demonstration and meeting rooms was finished in 1952.

Staff:

Director: Prof. Dr E. van Slogteren.

Botanical Research: Dr J. J. Beyer.

Mycology: Drs A. F. G. Slootweg.

Plant Physiology: Drs G. A. Kamerbeek.

Assistant: J. D. Bakker.

Virus diseases: Ir D. H. M. van Slogteren.

Assistant Serology: Miss M. C. Cremer.

laboratorium voor Entomologie – *Entomological Laboratory* (Director: Prof. Dr W. K. J. Roepke), Rijksstraatweg 37, Wageningen. Telephone 2438.

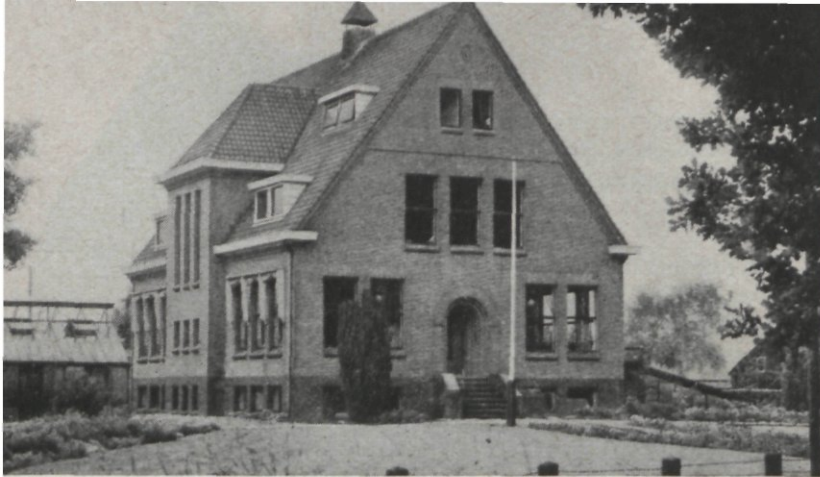
The Entomological Laboratory is a division of the Institute of Phytopathology and Entomology belonging to the Agricultural University. It is situated in the Arboretum and housed in the same buildings as the Department of Plant Taxonomy and Geography. Here, Prof. Dr Jan Ritzema Bos spent a great deal of his life.

Instruction is given in the fields of applied and general entomology.

The research work varies with the requirements of the moment. At present investigations are carried out concerning the bionomics of certain *Rhynchota*, chiefly *Heroptera*, living on wild and cultivated plants. Furthermore studies are in progress on the faunistics of Dutch and Indo-Malayan insects, especially of those having economic importance.

Instruction to students: Prof. Dr W. K. J. Roepke and R. H. Cobben.

Entomological research: R. H. Cobben.



Laboratory of Phytopathology

Laboratorium voor Phytopathologie – *Laboratory of Phytopathology*. (Director: Prof. Dr A. J. P. Oort), Binnenhaven 4, Wageningen. Telephone 2834.

The Laboratory of Phytopathology, together with the Laboratory of Bulb Research and the Entomological Laboratory, is a division of the Institute of Phytopathology and Entomology belonging to the Agricultural University.

Besides the instruction in plant diseases, experiments are carried out on susceptibility and sensitivity of various crops to different viruses, fungi and their strains, on the influence of environment on diseases, especially on soil borne diseases and on chemotherapy.

Close cooperation with the General Netherlands Inspection Service for Seeds of Field Crops and for Seed Potatoes "N.A.K." makes it possible to have contact with all the phytopathological problems that are of vital importance for seed certification.

The laboratory is provided with glasshouses for virus research, with a glasshouse in which the temperature and humidity can be regulated automatically with a modern potato storage house and with a series of Wisconsin tanks.

The organization of the Staff is as follows:

Instruction to students: Prof. Dr A. J. P. Oort, Prof.

Dr Ir T. H. Thung and Ir A. P. Kole.

Cultivation of ergot on rye: Prof. Dr A. J. P. Oort and Ir Th. de Bruin.

Diseases of cereals and flax: Prof. Dr A. J. P. Oort and Ir Th. de Bruin.

Virus diseases of potatoes: Ir A. Rozendaal.

Archimycetes: Ir A. P. Kole.
Chemotherapy: Dr M. H. van Raalte, Miss Dr J.
Oortwijn Botjes and
Phytophthora of potato: Ir Th. de Bruin and D. A.
v. d. Zaag.
Breeding for resistance to apple scab and tomato
leaf mould: Ir G. P. Termohlen.
Biological control of the potato eelworm: Dr P. A.
van der Laan.

Instituut voor Plantenziektenkundig Onderzoek (I.P.O.) – *Institute for Phytopathological Research* (Director: Dr J. G. ten Houten), Binnenhaven 4A, Wageningen. Telephone 2151.

The Institute for Phytopathological Research is a

foundation sponsored by the Ministry of Agriculture. The long-range research carried out in various regions of our country, on diseases and pests in agricultural and horticultural crops, is coordinated in the new Institute. The Institute has its office and main laboratory at Wageningen. A new laboratory and several greenhouses are under construction. There is a close cooperation between the Institute and the Laboratory of Phytopathology as well as with several other Institutes at Wageningen, e.g. the Plant Protection Service and the Plant Breeding Institutes.

Whereas the Laboratory of Phytopathology and the Entomological Laboratory of the Agricultural University are, generally speaking, carrying out more fundamental work and the Plant Protection Service has to concentrate on advice and research in the field of actual control measures, the above Institute aims primarily at the study of the efficient and economic control of pests and diseases of our major crops, in order to reduce the considerable losses due to noxious organisms, by developing preventive and sometimes curative measures. The Division for Plant Disease Resistance acts as a clearing house for all questions concerning reliable

inoculation methods etc. for plant breeders and plant breeding Institutes.

The organization of the Institute for Phytopathological Research is as follows:

Head of the Entomological Division: Dr H. J. de Fluiter.

Head of the Virological Division: Prof. Dr T. H. Thung.

Head of the Mycological Division: Dr J. G. ten Houten.

Head of the Nematological Division: Dr Ir J. W. Seinhorst.

Head of the Division for Plant Disease Resistance: Dr J. C. s'Jacob.

Head of the Administration: J. M. van der Leeuw.

Documentation: Miss Dra J. M. Krythe.

Librarian: Miss E. Streutgers.

Work on the following subjects is carried out:

a. at Wageningen:

Bacterial and fungus diseases of vegetables: Miss Ir M. Bakker.

Bacterial and fungus diseases of beans: Ir R. E. Labruyère.

Fusarium wilt of peas: Miss Dra J. C. Schreuder.

Fungus diseases of onions: Ir A. M. van Doorn.

Dry rot and water rot of potatoes: Dr J. C. Mooi.

Fungus diseases of swede rape: Miss Dra F. Quak.

Insects of swede rape: Ir G. W. Ankersmit.

Silverleaf of fruit trees and chemotherapy: Dr J. Grosjean.

Strawberry diseases, especially soil-borne fungus diseases: Miss Dr C. H. Klinkenberg.

Transmission of virus diseases of strawberries and raspberries by insect vectors: Dr H. J. de Fluiter.

Transmission of virus diseases of fruit trees by insects: Drs H. H. Evenhuis.

Virus diseases of some horticultural and agricultural crops and the diagnosis of virus diseases of plants: Prof. Dr T. H. Thung.

Transport of potato viruses within the plant in connection with the estimation of the best harvest time: Ir A. B. R. Beemster.

Virus diseases of beans and tobacco: Ir J. P. H. van der Want.

Virus diseases of lupins and cereals: Dr D. Noordam.

Diseases caused by nematodes, especially the non-

cyst forming groups: Dr Ir J. W. Seinhorst.
Nutritional diseases of horticultural crops: Dr D. Mulder.

Possibilities of low-volume spraying and efficient use of insecticides and herbicides: Dr Ir J. J. Fransen.

Ibid. for fungicides: Miss M. C. Kerksen.

Research and advisory work on plant disease resistance in agricultural crops: Dr J. C. s' Jacob.

Ibid. in horticultural crops: Ir N. Hubbeling.

b. elsewhere:

Possibilities of the use of helicopters and fixed wing planes for the control of pests and diseases: Dr W. J. Maan, v. IJsselsteinlaan 7, Amstelveen.

Virus and fungus diseases of greenhouse flowers: Drs G. Scholten, Experiment Station of Floriculture in the Netherlands, Aalsmeer.

Virus and fungus diseases of gherkins: Dr F. Tjallingii, Horticultural Laboratory, Venlo.

Apple scab: Ir G. S. Roosje, Fruit Research Station, Zeelands Proeftuin, Wilhelminadorp.

Leafrollers and Codling moth: Drs D. J. de Jong, Fruit Research Station, Zeelands Proeftuin, Wilhelminadorp.

Other fruit tree insects and red spiders: M. v. d. Vrie, Fruit Research Station, Zeelands Proeftuin, Wilhelminadorp.

Pea insects: Dr Ir C. J. H. Franssen, Laboratory of Entomology of the I.P.O., Mauritskade 59a, Amsterdam.

Carrot fly and cabbage fly: Drs L. E. van 't Sant, Laboratory of Entomology, Mauritskade 59a, Amsterdam.

Gall midges in fruit and vegetable crops: W. C. Nijveldt, Laboratory of Entomology, Mauritskade 59a, Amsterdam.

Virus diseases of cabbage: Ir H. A. van Hoof, Broek op Langedijk (Veilinggebouw).

Red spider investigations on fruit trees: Prof. Dr D. J. Kuenen (guest worker), Zoological Laboratory, Kaiserstraat 63, Leiden.

The physiology of the Colorado beetle: Dr J. de Wilde (guest worker), Physiological Laboratory, Rapenburgerstraat 136, Amsterdam.

Dr Ir G. S. van Marle, entomologist (guest worker), Zutphen.

Aphidology Adviser: D. Hille Ris Lambers (entomologist T.N.O.), Edeseweg 139, Bennekom.

Plantenziektenkundige Dienst - *Plant Protection Service*. (Director: Dr C. J. Briejër, Assistant Director: Dr Ir H. N. Kluyver), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

As indicated by the name The Plant Protection Service safeguards the healthy condition of crops. The activities relate to advice and investigations on disease control in co-operation with Agricultural and Horticultural Advisory Services, as well as to inspection of exported and imported plant material.

The work may be outlined as follows:

1. Inspecting the health condition of bulbs and flowers, potatoes, woody and herbaceous plants, seeds, vegetables and fresh and dried fruits.
2. Identification of diseases and pests of material submitted for examination.
3. Investigations on methods of disease and pest control as well as on sprays and dusts.
4. Advice on the control of plant diseases and pests and infestation of stored products.
5. Organization of the destruction of rats, mice and harmful birds.
6. Instructions on the control of plant diseases and

- pests by wireless, press and exhibitions.
7. Research on susceptibility to wart disease of potatoes.
8. Supervision of seed disinfection.
9. Publishing of "Reports", "Pamphlets" and "Communications" in relation to plant disease control, pests and destructive animals.
10. Supervision of the execution of legally prescribed control measures against diseases, pests and destructive animals, e.g. against the colorado potato beetle.
11. Supplying preparations, photographs and lantern slides in behalf of agricultural and horticultural instruction.

The headquarters are assisted in their work by 6 regional and 35 local offices listed below.

- I. District N.E. Netherlands: Regional office: Leeuwarden.
Local offices: Assen, Groningen, Leeuwarden, Stadskanaal and Winschoten.
- II. District N.W. Netherlands: Regional office: Lisse.
Local offices: Amsterdam, Haarlem, Heem-



The regional and local offices of the Plant Protection Service

stede, Heiloo, Hillegom, Hoorn, Leiden, Lisse, Naaldwijk, Sassenheim and St. Pancras.

III. District Central Netherlands West: Regional office: Wageningen.

Local offices: Aalsmeer, Boskoop and Utrecht.

IV. District Central Netherlands East: Regional office: Zwolle.

Local offices: Apeldoorn, Coevorden, Deventer, Emmeloord, Hengelo(O.) and Doetinchem.

V. District S.E. Netherlands: Regional office: 's-Hertogenbosch.

Local offices: Elst, 's-Hertogenbosch, Mill, Roermond and Zaltbommel.

VI. District S.W. Netherlands: Regional office: Goes.

Local offices: Goes, Roosendaal, Rotterdam and Terneuzen.

The formation of the staff at the headquarters is:
Director: Dr C. J. Briejër.

Inspector: Dr Ir H. N. Kluyver (Assistant Director).

Foreign relations: Dr L. W. D. Caudri.

Juridical and general matters:

Mr F. du Marchie Sarvaas, in charge.

Inspections:

J. Zwartendijk, in charge.

Finance:

W. Viets, in charge.

Publicity:

J. Ph. Z. Ermers, in charge.

Identifications:

Dr Ir M. Oostenbrink, in charge; nematology.

Dr Ir J. A. A. M. H. Goossens, mycology.

Miss Dr A. Jaarsveld, mycology.

G. van Rossem, entomology.

Agriculture:

Ir H. A. Ormel, in charge; potatoes.

Ir J. A. J. Veenenbos, seed dressing, cereals, commercial crops.

Ir H. J. de Bruin, potato root eelworm control.

P. Zonderwijk, weed control.

G. J. Saaltink, soil insects and fodder crops.

Horticulture:

Ir P. H. v. d. Pol, in charge; flowers and bulbs.

Ir C. A. R. Meijneke, fruit growing and nursery stock.

Ir M. v. d. Vliet, vegetables and seeds.

Plant Protection Chemistry:

Dr L. Westenberg, in charge; chemical tests.

Dr A. F. H. Besemer, field tests.

Dr K. Hartsuyker, bioassays of fungicides.

Drs F. E. Loosjes, bioassays of insecticides.

Zoology:

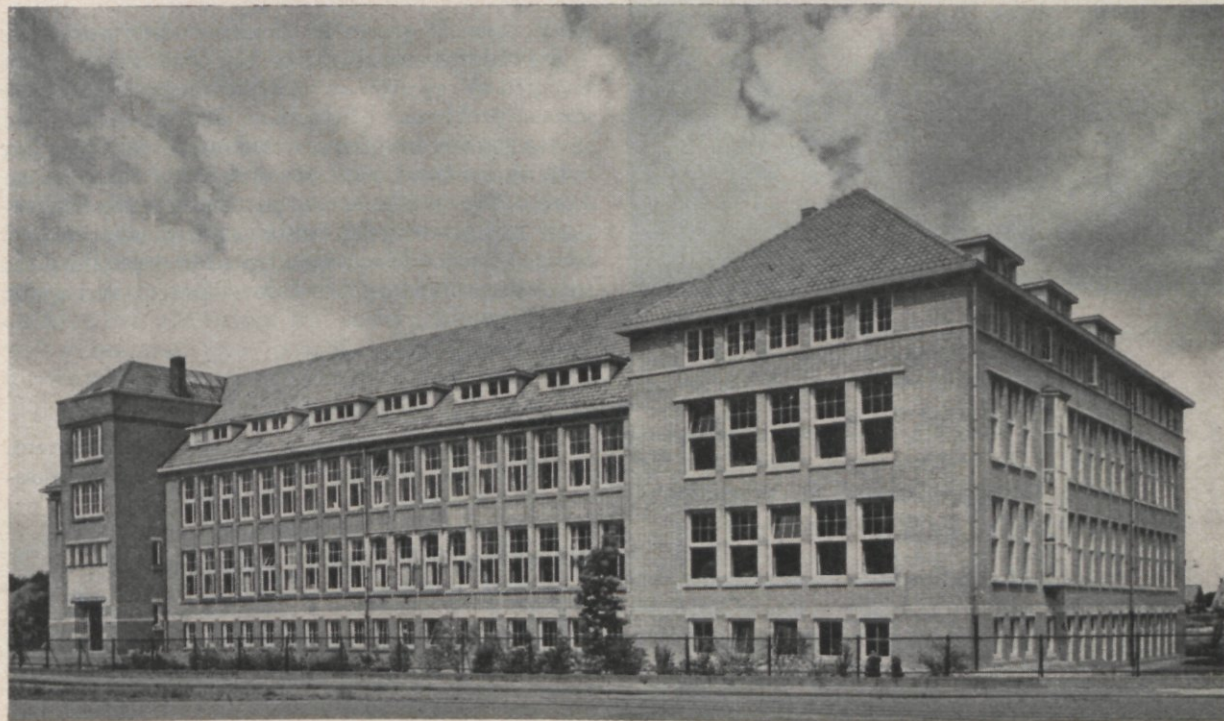
Ir A. J. Ophof, in charge.

Dr E. van Koersveld, noxious and beneficial birds, muskrat control.

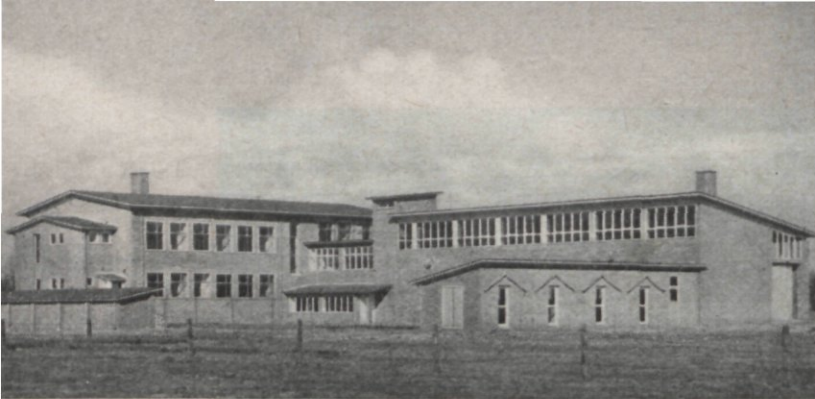
Drs A. van Wijngaarden, general rodent control.

Documentation and statistics:

Ir H. van Lookeren Campagne, in charge.



Plant Protection Service



Laboratory of Field Crop Husbandry

Laboratorium voor Landbouwplantenteelt
 – *Laboratory of Field Crop Husbandry* (Director:
 Prof. Ir W. J. Dewez), Haarweg 33, Wageningen.
 Telephone 2876.

The theory and practice of field crop husbandry constitutes the main part of the training of students in Dutch agronomy and the activities of this department are concentrated on this purpose.

A large collection of crop and seed samples are kept and an extensive collection of varieties of many

field crops are grown for demonstration purposes.

In addition members of the staff are actively engaged in research on agricultural botany and on special problems of field crops and grassland. The investigations are often carried out in collaboration with agricultural institutes and study committees. Many of the students take part in them. Special attention is given to the culture of seed potatoes and forage crops and to crops adapted to dry soils. This involves problems of root development and water economy.

Instruction to students:

Ir W. J. Dewez, Professor.

Ir M. L. 't Hart, Lecturer on grassland management.

Dr D. M. de Vries, Lecturer on the botanical grassland research.

Research on field crops:

Prof. Ir W. J. Dewez.

Ir F. J. H. van Hiele.

Ir J. W. van Lieshout.

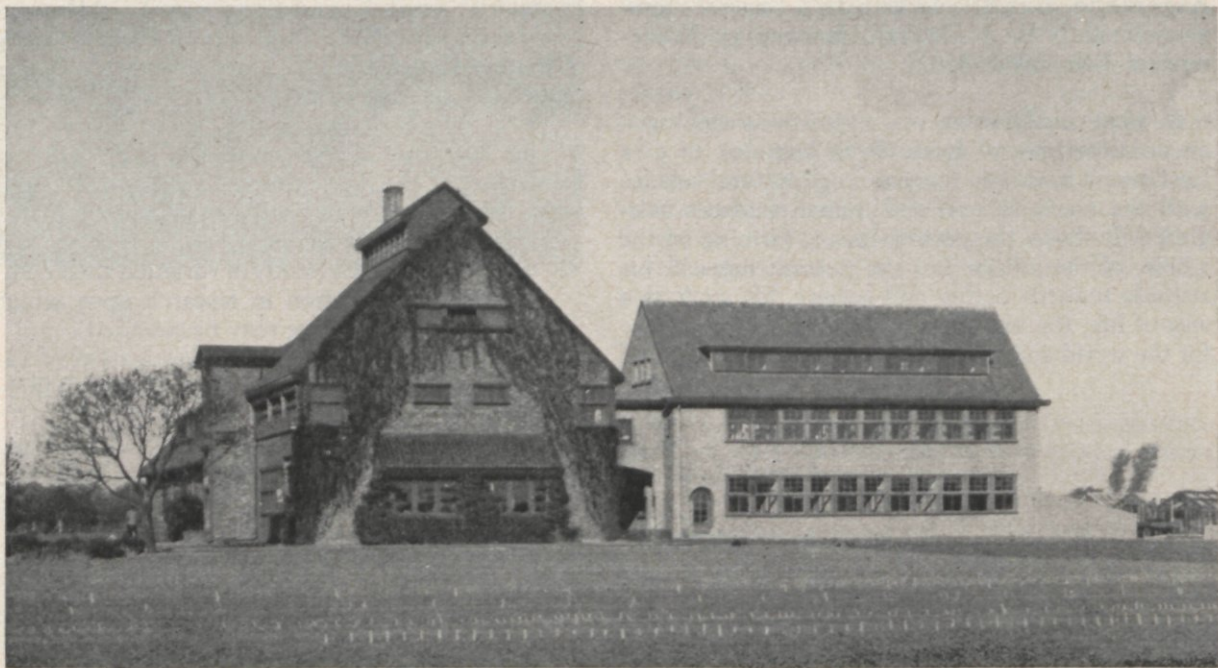
Algemene Landbouwkunde – *General Agronomy* (Prof. Ir W. J. Dewez), Haarweg 33, Wageningen. Telephone 2876.

In 1949 this Division was added to Wageningen on an experimental basis. It is intended to give freshmen a synthetic review of agricultural science with the many natural and human sciences integrated. It shows the peculiarities of farming on the whole, of the village and the peasant himself, his attitude towards nature and society, his work as a way of life, the importance of food and agriculture for the world and the nation.

Instituut voor Veredeling van Landbouwgewassen – *Institute of Agricultural Plant Breeding* (Director: Prof. Dr Ir J. C. Dorst), Nude 66, Wageningen. Telephone 2942.

The Institute of Agricultural Plant Breeding forms part of the Agricultural University. Its activities can be presented briefly as follows:

1. Instruction to students.
2. Scientific research (study of varieties, their comparison, participation in research upon which future plant breeding may be founded).
3. Advice to plant breeders. Investigation of varieties created by breeders. Supplying with literature.
4. Own breeding work, performed also for instructional and advisory purposes, of winter and spring wheat, winter and spring barley, oats, maize, winter rye, peas and beans.
5. Investigations into disease resistance in potatoes.
6. Maintenance of varieties produced by the Institute.
7. Demonstrations to visitors particularly those interested in breeding work.



Left: Institute of Agricultural Plant Breeding. Right: Foundation for Agricultural Plant Breeding

8. Propagation of knowledge by means of the press.
9. Supplying with literature and advising on literature. Keeping up of the extensive card catalogue of the library.
10. Advice and participation in the work of many institutions (Board of the Plant Breeder's Right, Central Organization for Applied Scientific Research (T.N.O.), General Netherlands Inspection Service for Seeds of Field Crops and for Seed Potatoes (N.A.K.), Committee for the Compilation of the List of Varieties of Field Crops, other Institutes and Societies).

The editorial office of *Euphytica*, Netherlands Journal of Plant Breeding, founded in 1952, is housed at the Institute.

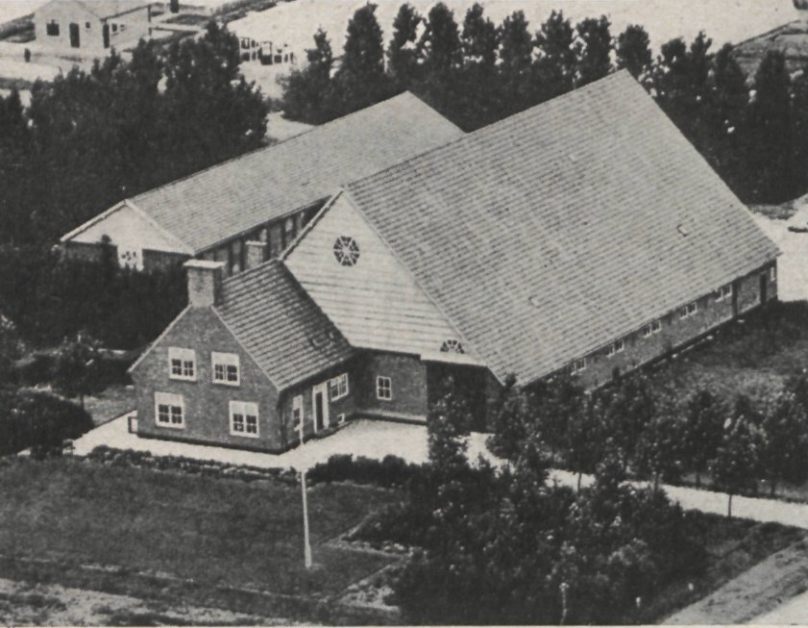
On the same premises is located the Foundation for Agricultural Plant Breeding (Director: Prof. Dr J. C. Dorst; Assistant Director: Ir G. Veenstra), an autonomous institution, the task of which is to give advice and aid to breeders of farm crops. The Foundation also develops new varieties, but the marketing of these will be left to private parties.

There is a close cooperation between the Founda-

tion and the Institute, many projects being executed in common.

The organization of the Staff is:

Instructions to students: Prof. Dr Ir J. C. Dorst.
 Agricultural Research: Prof. Dr Ir J. C. Dorst, Dr H. de Haan.
 Genetics: Dr F. P. Ferwerda.
 Cytology: Dr G. Bremer.
 Plant Physiology:,, Mrs Dr D. E. Bremer-Reinders.
 Research on disease resistance in potatoes: Dr H. J. Toxopeus, Ir J. A. de Bokx.
 Selection: Sj. Bekius, Joh. Dros.
 Library: H. Jansen; L. A. van Melle, M.S.



Experiment Farm of the Foundation for Agricultural Plant Breeding (North-East Polder)

62

Stichting voor Plantenveredeling (S.V.P.) –
Foundation for Agricultural Plant Breeding (Director: Prof. Ir J. C. Dorst; Assistant Director: Ir G. Veenstra), Nude 66, Wageningen. Telephone 2942.

The Foundation for Agricultural Plant Breeding has been instituted in order to promote the breeding of farm crop plants by private breeders and also to develop new varieties of its own.

It endeavors to attain these objectives by:

- a. performing research work on plant breeding.
- b. advising and aiding breeders of farm crop plants.
- c. developing improved varieties of farm crop plants, especially of those to which private breeders pay little or no attention.

The Foundation cooperates closely with the Institute of Agricultural Plant Breeding; by mutual arrangement a division of labor is achieved.

The work is executed at Wageningen and in the North-East Polder (former Zuiderzee) where the Foundation manages a farm and glasshouses.

The Director of the Institute of Agricultural Plant Breeding of the Agricultural University is also director of the Foundation for Agricultural Plant Breeding.

Staff:

Director: Prof. Dr Ir J. C. Dorst.

Assistant Director: Ir G. Veenstra.

Improvement of:

Potatoes: Ir G. A. Thijn (Emmeloord), Ir H. T. Wiersema, Ir C. A. Huijsman.

Flax: Ir H. T. Wiersema.

Grasses and Clovers: Dr F. Wit, Ir G. E. van Dijk, Ir L. H. J. Korsten.

Fodder Lupins, Vetches, Serradella, Turnips, etc.: Ir H. Lamberts.

Fodder beet: Ir D. Kloen.

Cereals: Ir G. Dantuma.

Maize: Ir F. J. Dijkhuis.

Cytology: G. J. Speckmann.

Chemistry and Physiology: Ir L. Voskuyl, Ir J. W. Sieben.

Farm Manager N. E. Polder: A. Troost.

Administration: M. H. Agelink.

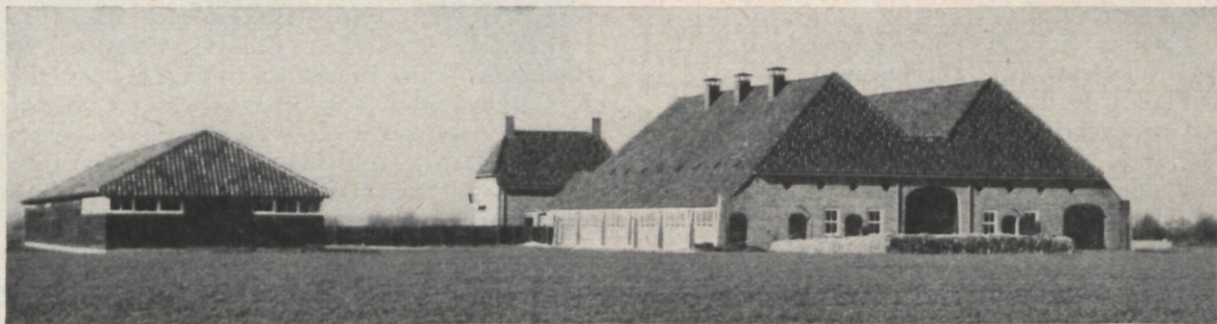
Rijksinstituut voor Rassenonderzoek van Landbouwgewassen – *Government Institute for Research on Varieties of Field Crops* (Director: Ir J. K. Groenewolt, Acting Director: Dr Ir F. E. Nijdam), Hoogstraat 105, Wageningen. Telephone 2820 and 2803; 2802 (Lab.); 2720 (Mathematics); 288-K 8379 (Exp. Farm).

The Government Institute for Research on Varieties of Field Crops was founded in 1942. Its task is to perform research on varieties of field crops in co-operation with other agricultural institutions.

By order of the Board for the Plant Breeder's Right varieties submitted to the board for registration are examined for distinctive characters. Experimental work is undertaken on behalf of the Government Committee for the Compilation of the List of Varieties of Field Crops and data are gathered for composing the annual Descriptive List of Varieties of Field Crops, edited by the Committee.

At intervals reports on varieties are issued.

The work of the Institute for Research on Varieties is executed by 4 divisions.



Experiment Farm of the Government Institute for Research on Varieties of Field Crops

- I. Division for the determination of distinctive characters of varieties for which a demand for registration has been submitted to the Board for the Plant Breeder's Right. Head of Division: Dr Ir F. E. Nijdam, Botanists: F. M. van der Vaart,
- II. Division for research on behalf of the Descriptive List of Varieties of Field Crops relative to potatoes, cereals, legumes, flax, swede rape,

canary grass, poppy, caraway and mustard. Head of Division: Ir J. A. Hogen Esch, Agronomists: Ir J. J. Dijkveld Stol, Ir R. A. Wasse-naar.

This division is also in charge of the sending of free samples of seeds and seed potatoes for trials abroad. Mr Hogen Esch is also secretary and technical leader of the Commission for the Advancement of Potato Breeding; the work of

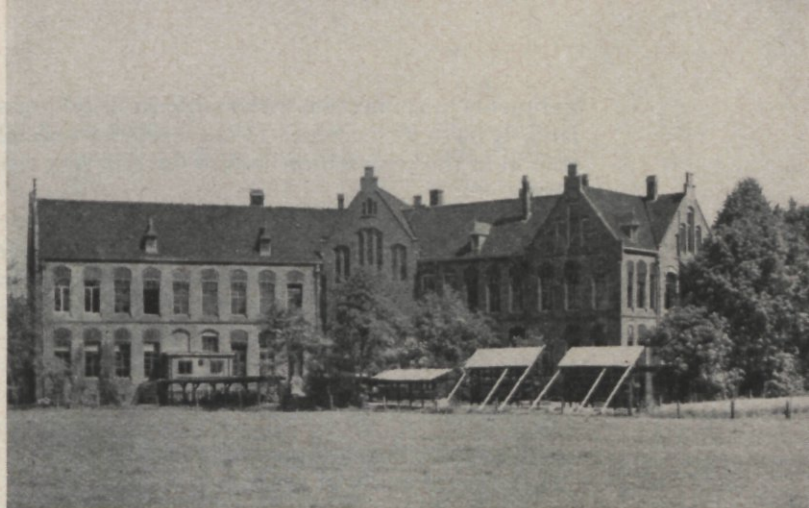
this Commission is executed in his division.

- III. Division for research on behalf of the Descriptive List of Varieties of Field Crops as far as forage crops and grasses are concerned. Head of Division: Ir W. Scheijgrond.

Closely associated with the activities of this division are those of the Commission for Research on Varieties on behalf of the Corporation for Seeds and Planting Material of Arable Crops and Meadows. Ir J. K. Groenewolt is the secretary of this Commission, which studies varieties of green fodder plants with the purpose of rationalizing the varietal range.

- IV. Division for the mathematical analysis of data. Head of Division: Dr Ir G. Hamming.

Farm Manager: A. van Grootheest.
Administration: J. J. de Kramer.



Central Institute of Agricultural Research

Centraal Instituut voor Landbouwkundig
Onderzoek – *Central Institute of Agricultural Research*
(Acting Director: Ir J. Wind), Duivendaal 10,
Wageningen. Telephone 2645.

The Central Institute of Agricultural Research
was founded in 1939 to carry out and to direct ex-

periments in connection with arable land and grassland. It owes its existence to the need for specialization in the research on each of the different crop plants.

Close collaboration is maintained with the government agricultural advisers, under whose supervision interprovincial trial fields are laid out. The field experiments of the Agricultural Advisers are administered by the Central Institute.

The activities of the Institute are:

1. Research on grassland and forage crops.
2. Botanical study of grasslands.
3. Research on cereals, legumes, potatoes, maize and on the storage of crops.
4. Chemical analysis of crops in a laboratory equipped for large scale analysis.
5. Research on the cooking quality of potatoes and legumes.
6. Research on winter hardiness of cereals (with the aid of a refrigerator).
7. Research on the physiological factors determining flowering and yield of agricultural plants.
8. Research on local productivity levels.

9. Research on drying technique in a special laboratory.
10. Lay-out of experimental fields.
11. Publishing an annual list of field experiments.

Staff:

Acting Director: Ir J. Wind.

I. Division of Grassland and Forage Crops. Chief:
Ir M. L. 't Hart.

- a. Botanical research: Dr D. M. de Vries.
 1. Sociological, ecological and morphological research: Dr D. M. de Vries.
 2. Surveying and weed control: Ir Th. A. de Boer.
 3. Physiological research: Dr T. Alberda.
- b. Zoological research: Dr Ir J. Doeksen and Dr J. Wilcke.
- c. Establishment of grassland and production of grass seed: Ir A. Sonneveld, Ir A. Evers, Ir T. C. van der Kamp and Ir G. C. Ennik.
- d. Hydrology: Drs G. F. Makkink, Ir C. Baars and Ir G. P. Wind.
- e. Improvement of grassland:
 1. Desiccated peat soils: Ir D. v. d. Woerd.

2. Basin soils in river clay: Ir J. W. Minderhoud.
 - f. Productivity level and utilization of grassland: Ir M. L. 't Hart and Ir Th. A. de Boer.
 - g. Ensilage: Ir D. Kappelle.
 - h. Grazing experiments, hay making and grass drying: Ir S. Bosch and Ir D. van der Schaaf.
 - i. Ley farming: Ir C. J. Cleveringa.
 - j. Forage crops: Ir J. C. Bosman and Ir W. A. P. Bakermans.
- II. Division of Arable Crops. Acting Chief: Dr W. H. van Dobben.
- a. Cereals: Dr W. H. van Dobben.
 - b. Productivity level of arable crops: Ir M. M. de Lint, Ir J. C. Pape, Drs C. Postma and Ir F. W. J. van Es.
 - c. Legumes: Ir P. Riepma Wzn., attached to the Association for the Study of Leguminous Crops.
 - d. Maize and new crops: Ir W. R. Becker.
 - e. Potatoes and Jerusalem artichoke (*Helianthus tuberosus*): Ir A. J. Reestman.
 - f. Fiber crops: Ir J. C. Friederich, attached to the Dutch Flax Institute.
 - g. Fine seeds: Ir E. van Roon.

- h. Storage of potatoes and root crops: Dr Ir W. H. de Jong and Ir B. G. Oude Ophuis. Physiological research related to the storage of seed potatoes: Miss Ir N. Krijthe, attached to the Laboratory of Plant Physiological Research of the Agricultural University.
 - i. Weed control: Ir P. Riepma Kzn.
 - j. Botanical Research: Drs H. G. Wittenrood.
 - k. Human nutrition: Miss A. Veenbaas.
- III. Chemical Laboratory: Dr W. B. Deys (chief), Miss Ir C. L. Harberts and Dr W. Dijkshoorn.
- IV. Drying Research Laboratory: Prof. Ir J. J. I. Sprenger (chief) and J. Kreyger.

Administration: I. F. Flipse.
 Field-trial service: S. Sevenster.
 Interprovincial Field trials: T. F. Hopma.
 Statistical section: C. Lugt and G. C. J. F. Nielen.
 Library: Drs P. Verkerk.

The Agricultural Adviser for Pulses (Ir R. P. Lammers) is lodged in this building. He is also the technical officer of the Association for the Study of Leguminous Crops.

Droogtechnisch Laboratorium – *Drying Research Laboratory* (Director: Prof. Ir J. J. I. Sprenger), Mennonietenweg 27, Wageningen. Telephone 2854.

A Government Research Laboratory, which is a section of the Centraal Instituut voor Landbouwkundig Onderzoek (Central Institute for Agricultural Research).

The Laboratory is subsidized by the M.S.A.-funds. Its activities include:

1. Research on the changes of physical properties, including regression of quality of green crops, cereals or seeds caused by drying.
 2. Research on driers and moisture testers in order to improve their construction.
 3. Research on storage problems to determine the suitable moisture contents under varying conditions.
 4. Testing of driers in praxis.
 5. Advising on drying problems.
- Staff:
Director: Prof. Ir J. J. I. Sprenger.
Research worker: J. Kreyger.

A machine hall with pilot driers forms part of the building.

Nederlands Vlasinstituut – *Dutch Flax Institute* (Director: Ir J. I. C. Butler), Rijkssstraatweg 107, Wageningen. Telephone 2497.

Institution subsidized by the organized farmers, flax industry and flax trade and by the Government.

Its activities include:

1. Research on fibre-flax growing and processing to semi-manufactured long fibre.
2. Research on linseed growing and processing of the straw.
3. Research on hemp growing and processing of the straw.
4. Research on samples of flax straw performed in a retting laboratory.
5. Research on flax processing machines and on the efficiency of the processing.
6. Instruction to young processors, flax workers and agricultural labourers.
7. Supervision of the instruction in special flax-schools.
8. Advice in flax growing and flax processing.

A new laboratory is under construction at the Bornsesteeg.

Staff:
Director: Ir J. I. C. Butler.
Research worker: Ir J. C. Friederich.

Stichting Aardappelbewaring - *Foundation for Potato Storage* (Director: Dr W. H. de Jong), Bosrandweg 3, Wageningen. Telephone 2908. After July 1st, 1953: Bornsesteeg, Wageningen.

The Foundation for Potato Storage investigates the storage and the shipping of potatoes. It studies the keeping quality of the tubers and the influences of all possible factors upon this property (such as the effect of growing conditions and handling). It deals also with the influence of storage and of treatment immediately before planting of seed potatoes upon the value (as seed) of the tubers.

The Foundation cooperates with other institutes in studying the storage of several agricultural crops besides potatoes (such as beet for seed production, fodder beet, sugar beet, etc.).

A laboratory is under construction at the Bornsesteeg.

Staff:
Director: Dr Ir W. H. de Jong.
Air conditioning and refrigeration: Ir B. G. Oude Ophuis.
Architect: O. van Bruggen.

Advisory service: Ir B. J. Hagreis.
Agriculturist: Ir P. A. Schippers.
Physiologist: Miss Ir N. Krijthe.
Phytopathologist: Dr J. C. Mooi (guest worker of
the Institute for Phytopathological Research).
Scientific Adviser: Prof. Dr A. Ph. Weber.

Nederlandse Algemene Keuringsdienst
voor Landbouwzaden en Aardappelpoot-
goed (N.A.K.) – *General Netherlands Inspection
Service for Seeds of Field Crops and for Seed Pota-
toes, "N.A.K."* (Director: Ir J. Siebenga), Bosrand-
weg 5, Wageningen. Telephone 2317.

The object of the corporation is to further the pro-
duction and use of reliable propagating material of
field crops as well as the improvement of such ma-
terial. It also enforces certain legal regulations.

Under the supervision of the Director-General of
Agriculture the corporation endeavors to attain its
ends by the following means:

1. Supervision of plant breeding, contract growing,
growing, manipulating and commercial establish-
ments with respect to the fulfilment of the regula-
tions concerning growing and trading.
2. Drafting regulations for the inspection of crops.
3. Forming and managing of the breeders' compen-
sation funds.
4. Giving advice and information to the govern-
ment and to members.
5. Encouraging the improvement of field crops and

maintaining them free from disease, preferably through the granting of subsidies to organizations working in this direction.

6. Promoting the use of certified Dutch propagating material at home and abroad.
7. Raising the standard of commercial transactions.
8. Encouraging research in relation to inspection methods.

For the execution of the inspections and the supervision of the farms the N.A.K. has divided the country in 13 regions. In every region a local inspection service functions as organ of the N.A.K.

General matters: Ir J. Siebenga, Director; A. J. Constandse, Vice-Director.

Technical matters:

- a. Division for foreign agricultural contacts: A. J. Constandse.
- b. Division for cereals, legumes and other seeds: F. de Feyter.
- c. Division for potatoes: Ir J. H. Brust.
- d. Division for forage crops: A. C. Buys.
- e. After harvest sample and bin inspection: J. S. Kamphuis.

Juridical matters: Mr Dr J. C. van Leeuwen.



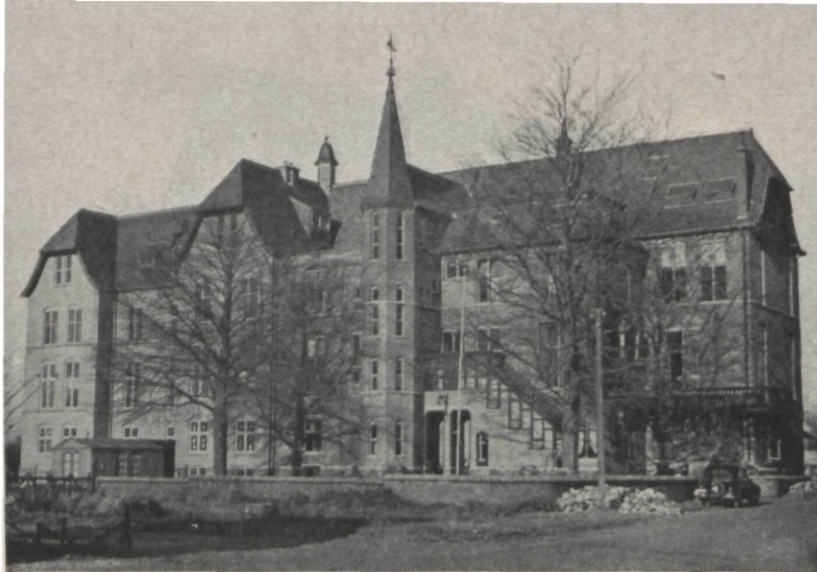
*General Netherlands Inspection Service for Seeds of Field Crops
and for Seed Potatoes (N.A.K.)*

Business control and disciplinary measures: J. C.
U. Z. van Aperen.

Documentation: Ir C. J. van Bijlert.

Financial Administration: N. Sterenberg.

Administration: J. Vlastuin.



Government Seed Testing Station

Rijksproefstation voor Zaadcontrôle—*Government Seed Testing Station* (Director: Dr Ir A. F. Schoorel), Binnenhaven 1, Wageningen. Telephone 3046.

72 The work of the Government Seed Testing Station concerns mainly:

1. Testing and assessing the quality of seed samples of agricultural, horticultural and forest plants, submitted for examination by farmers, contract growers, seed merchants, seed inspection services, flour manufactories, etc.
2. Supervision of the observance of the regulations pertaining to seeds. The supervision is maintained with the aid of the Inspectors of the Government Inspection Service. This Government Inspection Service is in certain cases also in charge of the official sealing of the bags and seed containers.
3. Research work necessary for improvement in the services provided by the station.
This work embraces:
Improvement of seed testing methods.
Striving for uniformity in seed testing all over the world (main purpose of the International Seed Testing Association).
Analytical research on behalf of Government Institutions and interprovincial trial fields.
Collecting, arranging and distribution of literature on seeds.
4. Advice to seedsmen and buyers to further an

efficient seed distribution and to encourage seed growing.

Advice is provided through:

Publishing reports and contributions in agricultural and horticultural periodicals.

Conducting of excursions.

Participation in arbitration.

Collecting and working out of data for the determination of standards established annually (quality requirements, standards for germination and purity, standards for contract growing, minimum requirements for export of seeds, criteria used in field and bin inspection, grading).

Staff:

Director: Dr Ir A. F. Schoorel.

Division for Purity Investigation: Ir H. J. Eggink.

Division for Germination Tests: Ir C. Verhey.

Division for the Determination of the Health Condition of the Seeds: Dr J. de Tempe.

Division for the relation with the certification services N.A.K. and N.A.K.G.: Ir M. J. F. Koopman.

Centraal Instituut voor Voedingsonderzoek T.N.O., Afdeling Graan-, Meel- en Broodonderzoek – *Central Institute of Nutrition Research T.N.O., Cereals Department* (Director: Drs H. M. R. Hintzer), Lawickse Allee 15, Wageningen. Telephone 3146.

The Institute is a special department of the Central Institute for Nutrition Research which belongs to the National Research Council for Nutrition T.N.O.. The fields covered are: cereal chemistry, milling and baking problems, and confectionery.

The baking quality of the home grown varieties of wheat and rye are investigated in close cooperation with the agricultural institutes. Special attention is paid to the biochemistry of wheat in relation to baking value. Systematic research is carried out on the keeping quality of wheat in connection with the microbiological and biochemical changes which may occur in grain supplies.

In the field of milling many important problems are studied, such as the influence of the milling process on the quality of flour and the action of improvers. Home grown barley varieties are ex-

amined as to their suitability for the production of pearl barley.

Many problems concerning the manufacturing and quality of baking products, e.g. bread, rye bread, rusks, biscuits, cake and of confectionery products are investigated. Fundamental studies on the nature of the staling of bread and on flavour are worthy of special mention.

A division for research on bakery engineering has been developed.

Staff:

Director, milling and baking properties of rye varieties: Drs H. M. R. Hintzer.

Milling problems and biochemistry: Dr G. L. Bertram.

Baking problems, confectionery: Drs F. Bothma.

Fundamental research on bread making technology: Ir D. H. Greup.

Analytical problems: Dr G. Jongh.

Fundamental research, baking quality of wheat varieties, statistical analysis: Ir H. de Miranda.

Baking technology, bakery engineering, technical problems: C. J. Wensveen.

Station voor Maalderij en Bakkerij - *Experiment Station of Milling and Baking* (Director: Dr J. van der Lee), Binnenhaven 2, Wageningen. Telephone 2474.

The Experiment Station of Milling and Baking was founded in 1909, with government subsidy, by an association of people connected with the milling and baking industries.

The Station is a research and advisory institute, as well as an educational establishment. It comprises a laboratory, a bakery for bread and pastry and a mill.

In the laboratory the raw materials used in milling and baking and the products of these industries are inspected. Research on these materials is also performed.

Instruction to future millers and bakers is provided by a one year's course given at Wageningen. The Station also attends to the needs for instruction in these fields outside Wageningen.

Staff:

Director: Dr J. van der Lee.

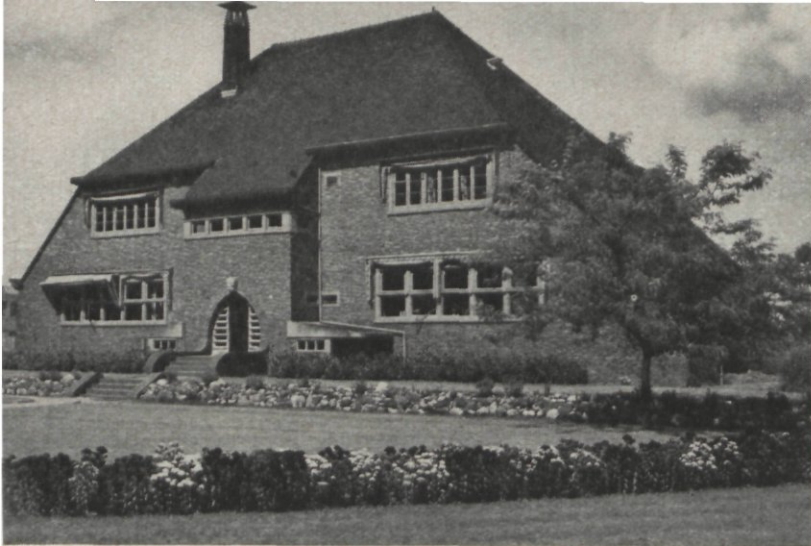
Assistant Director: Drs E. Dijkstra.

Administrator: D. A. de Regt.
Chemists: Drs E. Dijkstra, Drs J. Schoute.
Milling experts: L. Hartgerink, H. J. Noorlander.

Baking experts:
on breadmaking: E. Braaksma, R. de Boer, S. Davids.
on confectioning: L. A. Klaarenbeek, J. Leijen.



Experiment Station of Milling and Baking



Horticultural Laboratory

Laboratorium voor Tuinbouwplantenteelt – *Horticultural Laboratory* (Director: Prof. Dr Ir S. J. Wellensiek), Haagsteeg 3 (Postbus 30), Wageningen. Telephone 2441 and 2442.

cultural University and the education of students for leading advisory and research work constitutes an important branch of its program. The general teaching is done by the professor, assisted by six instructors for the practical phases of growing vegetables, fruits, bulbs, flowers, trees and shrubs, and seed.

The research activities comprise all phases of the growing of horticultural plants and they can be characterized as fundamental general horticultural research, involving: breeding research (cytological and genetical work), application of growth promoting and growth inhibiting substances, photoperiodism and vernalization, application of electricity to illumination, vegetative propagation including rootstock studies; literature research.

The principle of working is to restrict both the number of problems and the number of plants, in order to get a thorough knowledge of each of them from several angles. At the moment a great deal of attention is given to all problems related to "flowering" and to tomatoes, peas, Brussels sprouts, apples, pears, Cyclamen, Rhododendron as horticultural plants.

The staff consists of:

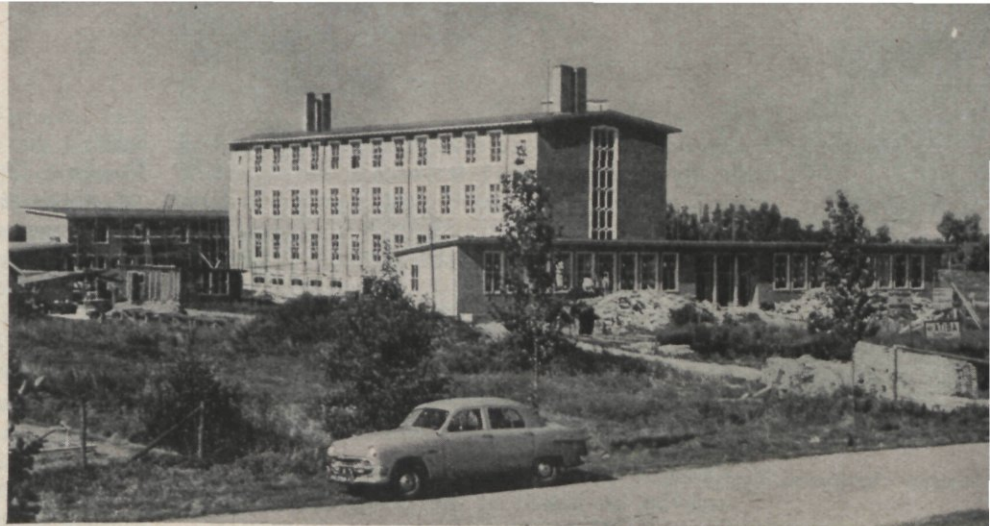
Head: Prof. Dr Ir S. J. Wellensiek.
Plant physiologist: Miss Dr Christine J. Gorter.

Cytologist: Ir R. A. H. Legro.

Horticulturists: Ir H. F. Waterschoot, Dr Ir J. Doorenbos, Ir P. M. Felius, Ir K. Verkerk, Ir T. Visser (T.N.O.), Ir H. C. M. de Stigter, Ir D. de Zeeuw (Z.W.O.), Ir Th. A. Hartman.

Co-assistants: C. Roelands, Sj. van Veen.

Chief of experiment gardens: R. Sabarte Belacortu.



Institute of Horticultural Plant Breeding

Instituut voor de Veredeling van Tuinbouwgewassen – *Institute of Horticultural Plant Breeding* (Director: Dr O. Banga), Herenstraat 25, Wageningen. Telephone 2805, Experiment Garden 3141.

The Institute of Horticultural Plant Breeding

began its activities, on a small scale, in 1936; it was officially founded in 1943. It works under a board of plant breeders and growers, and is supervised by the Ministry of Agriculture.

The general purpose of the Institute is the improvement of horticultural plants and the investigation of problems in this field and in related ones. With this objective, the activities of the institute comprise:

1. General documentation on varieties of horticultural plants.
2. Research on the distinctive characters of new varieties on behalf of the Board for the Plant Breeder's Right.
3. Research on the commercial value of varieties of horticultural plants for the descriptive lists of valuable varieties.
4. Research on methods of horticultural plant breeding, extension work in this field, and breeding work.
5. Research on seed growing and on vegetative propagation.

A laboratory is being built amidst the trial fields at the Lage Steeg, Experiment Garden "De Goor".

Staff:

Director: Dr O. Banga.

I. Division of Vegetables and Herbs. Head: Ir J. Sneep.

Leafy vegetables: Ir J. Sneep.

Cabbage Crops: Ir J. R. Jensma.

Tomato, cucumber, etc.: Ir J. M. Andeweg.

Herbs: Ir G. Elzenga.

II. Division of Pomology. Temp. head: Dr O. Banga.

Foreign plant introduction; cherry, nuts, etc.: Ir C. J. Gerritsen.

Small fruits: Miss Ir Hester G. Kronenberg.

Fruit morphology: E. T. Nannenga, biol. drs.

Apple, pear, plum: Ir A. S. de Bruyne.

III. Division of Ornamentals. Head: Dr B. K. Boom.

IV. Division of Special research. Head: J. P. Braak, biol. drs.

Physiology: J. P. Braak, biol. drs, Ir L. Smeets.

Rootstocks, vegetative prop.: Ir J. Floor.

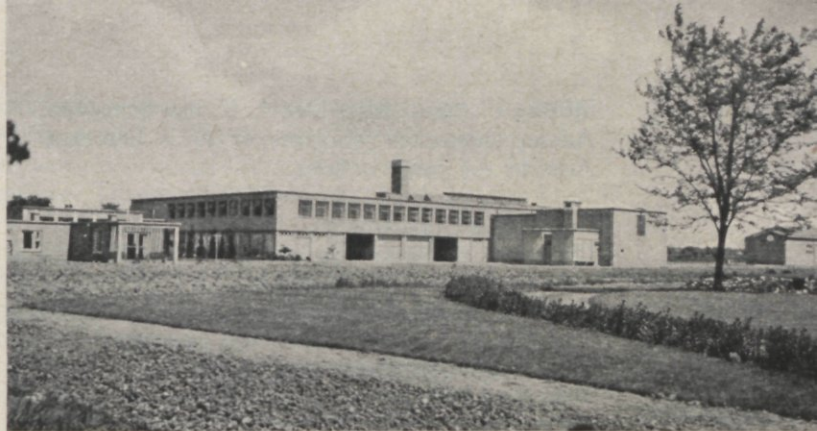
Phytochemistry: J. W. de Bruyn, pharm. drs.

Mathematics and statistical analysis: M. Keuls.

Instituut voor Bewaring en Verwerking van Tuinbouwproducten – *Institute for Research on Storage and Processing of Horticultural Produce* (Director: Ir A. K. Zweede), Haagsteeg 6, Postbus 17, Wageningen, Telephone 2045.

This Institute was founded by a body in which growers, industrialists and consumers are represented. It is directed by the Ministry of Agriculture. The activities may be summarized as follows:

1. Laboratory Research.
2. Storing and processing horticultural produce, which may be put on the market as a standard article under the name of the Institute.
3. Objective advertising of the products coming within its scope.
4. Giving information.
5. Giving lectures on the growing as well as on the storing and the processing of produce.
6. Organizing courses.
7. Publishing reports, communications and manuals.
8. Performing activities which promote rational processing and storing of horticultural produce except bulbs.



Institute for Research on Storage and Processing of Horticultural Produce

Director: Ir A. K. Zweede (Horticultural Advisory Officer for Technology).

Vice-Director: Ir T. van Hiele (Horticultural Advisory Officer for Storage).

Storage department:

Fundamental physiological research: Drs J. E. Boeke.

Research on storage problems: Miss Ir J. N. Heringa.

Storage diseases: Miss Dra A. C. van Schreven.
Advice on storage problems: Ir W. S. Duvekot.
Adviser for constructions:

Processing Department:

Chemical research and research on pectins and enzymes: Ir J. J. Doesburg.
Research on freezing and canning: Ir J. A. M. Peels and J. A. S. Moerman (senior assistant).
Preparing horticultural produce for home use: Miss R. Booy.
Bacteriological research: Ir E. Olthof.
Research and inspection of jams: Ir L. Gersons.
Research on dehydration: Ir J. C. Mettievier Meijer.
Research on candying: Ir S. B. Thung.
Juices and wines: Ir E. Olthof and H. A. A. v. d. Lek (senior assistant).

Stichting Proeftuin voor Tabak-*Experiment Station of Domestic Tobaccos* (Director: Ir R. van der Ven), Rijksstraatweg 53, Wageningen. Telephone 2338.

Research related to the improvement of the domestic tobacco culture. Improvement of cultural practices. Manuring.

Development of new varieties through selection and hybridization.

Harvest and fermentation methods. Forced fermentation, for which purpose a special fermentation chamber has been constructed.

Research on shade-grown tobacco and on flue-curing of virginia varieties.

Diseases, pests and injuries.

Breeding of disease resistant varieties.

Advisory activity.

Staff:

Director: Ir R. van der Ven.

Research officer: Ir K. Szteyn.

Assistant: H. M. Brouwer.

Centraal Bemestingsproefveld voor de
Fruitteelt—*Central Experiment Field for Manuring
of Fruit Trees* (Director: Prof. Ir A. M. Sprenger),
Haarweg 18, Wageningen. Telephone 2810.

The Central Experiment Field for Manuring of
Fruit Trees "De lange Ossekampen" was founded
in 1935 by the Albatros Superphosphate Works Ltd
and placed under the direction of Prof. Ir A. M.
Sprenger.

Using modern statistical methods experiments
are carried out with fruit trees to ascertain suitable
fertilizer treatment for optimum development and
yield.

To obtain mathematically justifiable data the
Fisher method is used.

Manuring trials in addition to other aspects of
fruit growing; e.g. disease control, pruning, plant-
systems of fruit trees are studied, and new varieties
of fruit trees are tested.

Staff:

Director: Prof. Ir A. M. Sprenger.

Assistant: Miss Ir J. H. ter Kuile.

Instituut voor Tuinbouwtechniek—*Institute
of Horticultural Engineering* (Director: Dr Ir E. W.
B. van den Muijzenberg), Grebbedijk 12, Wage-
ningen. Telephone 2578.

This Institute was officially founded in 1944. The
managing-board is formed by representatives of the
growers, the trade and the industry. It is supervised
by the Ministry of Agriculture.

The work of the Institute includes research, test-
ing and instruction concerning technical aids, and
appliances useful to horticulture are pursued by
the Institute.

In addition to this, advices and designs are given
to the growers and to trade and industry with refer-
ence to:

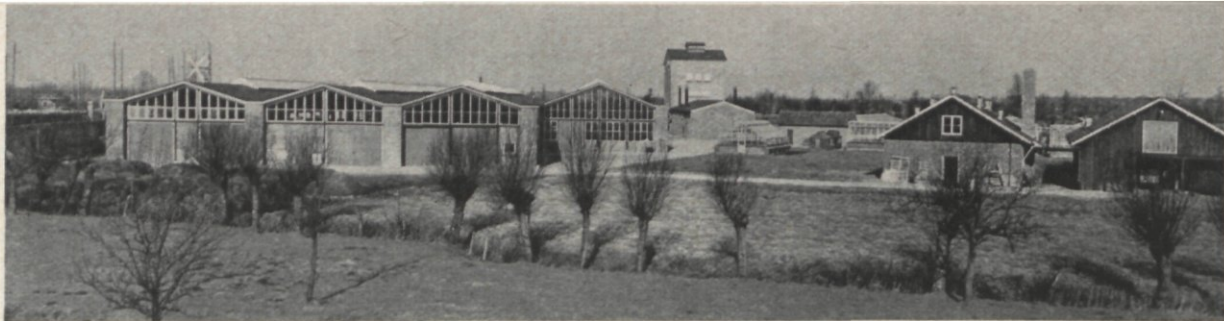
Building of glasshouses, working sheds, auction
halls, mushroom houses, bulb sheds, etc.

Heating, ventilating and airconditioning of green-
houses, bulb sheds, drying sheds for seeds and
herbs, onion and mushroom houses.

Steam sterilizing of soils.

Application of electricity to heating, lighting and
soil sterilization.

Night frost prevention.



Institute of Horticultural Engineering

Construction and use of horticultural implements (tractors, toolbars, disk harrows, sowing, sprinkling, spraying and harvesting machinery, graders, transportation appliances).

Every year courses are organized for the benefit of various groups, such as teachers of horticultural engineering; "Education days" are held for the patrons of the Institute and the growers.

Investigations are also carried out on construction and heating of glasshouses, air-conditioning, gravel culture, soil sterilization, electric heating and lighting, night frost prevention, cultivating, mowing, sprinkling, spraying machinery, harvesting and all other technical processes, used in vegetable growing, fruit growing, bulb growing, floriculture, arboricul-

ture, herb growing.

Special attention is paid to the economic use of all apparatus.

A new office with annexes is being built north of the town (Lage Steeg 12, Wageningen. Telephone 3041).

Director: Dr Ir E. W. B. van den Muijzenberg.

Horticultural Research: Ir J. A. Stender.

Technical Research: Ir N. Feis.

Physicist: Drs A. Businger.

Instruction: Ir H. J. M. Krijnen.

Economist: A. J. Wichers.

Architecture, construction of glasshouses etc.: W. van Keulen.

Heating of hot-houses: P. A. Spoelstra.
Application of electricity: A. van Drenth.
Technical matters: C. J. van Wijk.
Horticulture: J. A. Veerman.
Technical homologation:
Horticultural homologation: C. J. Wegenaar.
Head-gardener: P. J. Houter.
Documentation: Miss T. A. Ennik.

Centrum voor Tuinbouwtechniek (C.T.T.) –
Centre of Horticultural Engineering – subdivision of
the Institute of Horticultural Engineering (I.T.T.),
Lage Steeg 12, Wageningen. Telephone 3041.

A permanent exhibition of building, heating, electrical materials (glasshouses, boilers, thermostats), horticultural machinery and equipment (motors, tractors, mist blowers, sprayers, pumps, sprinklers, graders etc.).

Tuin- en Landschapsarchitectuur – *Division of Landscape Architecture* (Director: Prof. Dr Ir J. T. P. Bijhouwer), Hesselink van Suchtelenweg 6a, Wageningen. Telephone 3138.

This Division teaches garden, park and landscape design. Courses are given in: European landscapes, history of garden art, technique of outlay and upkeep, garden and park planning and design (Prof. Bijhouwer); architecture, building techniques, city planning (Prof. Bruin); history of art (Dr Witsen Elias); rural culture (Dr Roukens); graphic techniques (J. J. Haak). The students are required to follow the courses in: horticulture, soil science, rural economy, systematic botany and plant geography, surveying, conservation, sociology and freehand and perspective drawing.

During spring and autumn weekly excursions are made to noteworthy examples of landscape architecture and to projects in execution. The students design many smaller outlays in the region; in summer they obtain practical experience in professional offices.

The Division co-operates closely with various municipal planning offices and with the design staff of the Zuiderzee Reclamations.

Alumni have been placed in municipal and regional planning offices, in the planning bureau of the Netherlands Railroads and as teachers of landscape architecture in secondary horticultural schools.



Institute of Forestry

Instituut voor Bosbouwkundig Onderzoek – *Institute of Forestry*, Rijksstraatweg 64, Wageningen.

1. *Division of Forest Management, Forest Valuation, Forest Mensuration and Silviculture and Forest Protection in the Tropics* (Prof. Dr J. H. Becking), Telephone 2065.

2. *Division of Silviculture and Forest Protection in the Temperate Zone* (Prof. Dr G. Houtzagers), Telephone 2185.
3. *Division of Forest Exploitation and Forest Economics* (Prof. Dr Ir J. F. Kools), Telephone 2102.

Besides the directors, the scientific staff consists of C. H. Japing, Ir R. Sewandono, Ir A. van Laar and Dr Ir B. Veen.

The Institute of Forestry is a division of the Agricultural University; consequently the education of the students forms an important part of its activities. The different silvicultural investigations are organized, as much as possible, to harmonize with instructional requirements. Most of the sample plots are situated outside Wageningen.

Division of Forest Management, Forest Valuation, Forest Mensuration and Silviculture and Forest Protection in the Tropics (Prof. Dr J. H. Becking).

Research is carried out among other things on the following subjects:

- a. Yield and volume tables of the most important tree species (*Pseudotsuga*, *Larix*, *Populus*, *Quercus*);

- b. The most economic thinning grade of even-aged plantations;
- c. Analysis of yields and costs in forestry;
- d. Inventory and yield regulation methods for forest management.

Division of Silviculture and Forest Protection in the Temperate Zone (Prof. Dr G. Houtzagers).

Research is carried out among other things on:

- Hybridization of poplars;
- Vegetative propagation of forest trees;
- Exotic forest trees, provenances and climatological races (especially of *Pseudotsuga*, *Larix*, *Quercus borealis maxima*, *Robinia Pseudo-acacia*);
- The influence of rows of trees as windbreaks on farm land;
- Methods of thinnings and management;
- The influence of an understory of different kinds of broad-leaved trees and shrubs on the forest soil;
- Application of growth hormones to stimulate the rooting of cuttings of forest trees.

Division of Forest Exploitation and Forest Economics (Prof. Dr Ir J. F. Kools).

Research is carried out among other things on:

- a. Mechanical and physical properties of Surinam timbers;
- b. Strength properties of pit props;
- c. Efficiency of labor technique in forestry;
- d. Identification of timber specimens (The Institute is in the possession of about 3000 wood samples: 1600 from Indonesia, 600 from Surinam and 800 from other countries).



Forest Research Station

Bosbouwproefstation T.N.O. – *Forest Research Station* (Director: Dr Ir H. van Vloten), "De Dorschkamp", Domeinweg 1, Wageningen. Telephone 2651.

The institute was founded in 1947 by the Central Organization for Applied Scientific Research in the Netherlands (T.N.O.).

The working program covers three subjects:

1. Research on site factors, mainly the forest soils, influence of the sites on tree growth and influence of tree species on the sites included.
2. Growth and yield of exotic and native species of trees.
3. Tree selection and breeding in close relation with forest pathology problems.

The Research Station is established on the premises of the Estate "De Dorschkamp", which has been purchased by the Government for this purpose.

Staff:

Director: Dr Ir H. van Vloten.

Research Officers: Ir J. van Soest and Ir C. P. van Goor.

Laboratorium voor Tropische Landbouwplantenteelt – *Laboratory of Tropical Agriculture* (Director: Prof. Dr Ir C. Coolhaas), Prof. Ritzema Bosweg 32, Wageningen. Telephone 2193.

The laboratory forms part of the Agricultural University. Besides a main building and experiment plots there are four hothouses containing demonstration material of perennial crops, and affording facilities for experiments with annual crops.

The activities consist of:

1. Instruction in the principles of tropical agriculture and in the cultural details of the main tropical crops.
2. Practical training of the students in observing and describing the characters and properties of tropical crops and their varieties and in the carrying out of simple experiments.
3. Instruction in the practice of field experiments under tropical conditions.
4. Basic research work in connection with agricultural problems under tropical conditions. This is carried out in cooperation with the activities of the agricultural experiment stations in the tropics.



Laboratory of Tropical Agriculture

Staff:

Director: Prof. Dr Ir C. Coolhaas - Lectures on principles of tropical agriculture and research on perennial crops and tobacco.

Lecturer: Ir G. G. Bolhuis - Lectures and research on food crops.

Agricultural botanist: Mrs Dr J. A. Frahm-Leliveld - Practical instruction; general botany, cytogenetics of tropical crops.

Assistant: Ir Th. M. Wormer - Practical instruction; research on photoperiodicity in different crops under tropical and subtropical conditions.

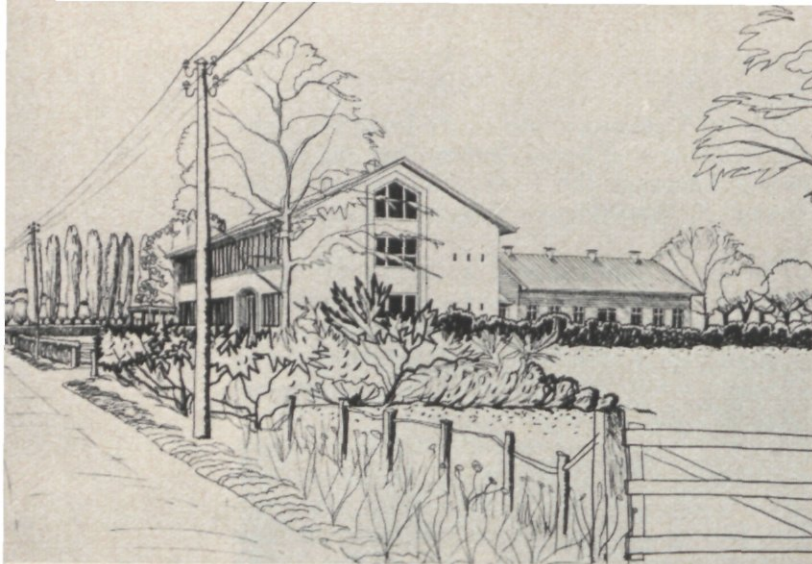
Land- en Volkenkunde en de Indonesische talen - *Division of Social Anthropology and the Indonesian Languages* (Dr F. H. van Naerssen), Diedenweg 18, Wageningen. Telephone 2463.

The instruction in social anthropology covers chiefly the social aspect of the rural communities of the so-called under-developed countries. In view of the rapid change of the social and cultural structure of these regions, the phenomena of acculturation and disintegration are emphasized.

A small but representative collection of Indonesian ethnografica belongs to this division.

For its social research work, in which senior students participate, the division maintains relations with institutions in this country, in Indonesia and elsewhere.

Scientific assistant: F. L. Schmidgall.



*Laboratory of
Animal Physiology*

Laboratorium voor Physiologie der Dieren - *Laboratory of Animal Physiology* (Director: Prof. Dr E. Brouwer), Duivendaalselaan 1, Wageningen. Telephone 2923.

In this laboratory of the Agricultural University the physiology of domestic animals and the fundamentals of nutrition are taught. In addition to this,

research is in progress on the nutrition of animals (digestion, metabolism, relations between food and milk, nutritive value of feeding stuffs, trace elements, vitamins, etc.) and on milk secretion and endocrinology. A respiration chamber for large farm animals is being built.

This laboratory is cooperating with other divisions of the Agricultural University, with agricultural experiment stations, with T.N.O. (Netherlands Central Organization for Applied Scientific Research), County advisers, etc. During recent years, for instance, a survey has been made of the condition of farm animals in different regions of the Netherlands. In cooperation with the Microbiological Laboratory and with Z.W.O. a study has been made of the microbiological activities in the rumen of ruminants.

A new laboratory is under construction at the Haarweg.

Director: Prof. Dr E. Brouwer.

Histology: Drs G. Wiertz.

Vitamins: Ir J. Weits.

Research officers: Dra B. D. E. Gaillard, Drs W. Tj.

Binnerts, Ir S. Brandsma, P. v. d. Wal, Y. Tj. Bakker.

Laboratorium voor Veeteelt – *Laboratory of Animal Husbandry* (Director: Prof. Ir W. de Jong), Duivendaalselaan 3A, Wageningen. Telephone 2473.

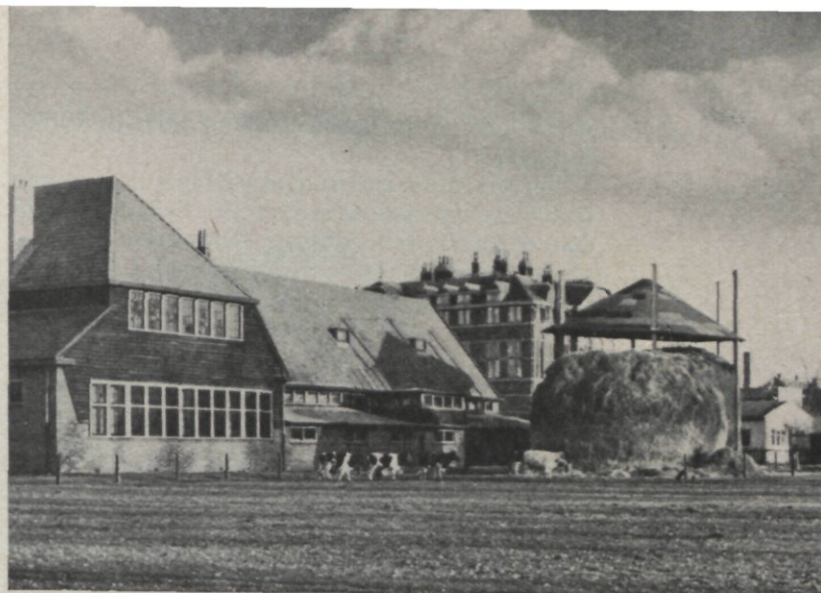
The Laboratory of Animal Husbandry is a Division of the Agricultural University. It is chiefly devoted to instruction purposes. To this end cows, pigs and sheep of the principal Dutch breeds are kept.

Furthermore research is carried out on the factors of production of the domestic animals, especially the cow and the horse.

These investigations, as far as the production qualities of cattle are concerned are carried out with the help of the data assembled by the Herdbook Societies, and, for horses, in cooperation with two of these associations. Close contact is maintained with these Herdbook Societies and Professor de Jong is chairman of the Netherlands Cattle Herdbook Association.

The results of former Paleontologic research is partly demonstrated in the museum connected with the laboratory.

Two selection establishments for pigs are annexed to the laboratory. One of these establishments is run



Laboratory of Animal Husbandry

by the Pig Herdbook Association of Guelderland and the other by the Committee of Supervision over all the Dutch selection establishments. The first one serves for the selection of breeding pigs and the

second one for the investigation of different feeding methods.

The laboratory is fortunate in having close contact with these associations as Professor de Jong is chairman of the above mentioned committee, as well as of the Central Bureaux of Pig Breeding and Sheep Breeding in the Netherlands.

Staff:

Director and instruction: Prof. Ir W. de Jong.

Research and instruction: Dr Th. de Groot.

Research: Ir K. Bosma.

Laboratorium voor Zuivelbereiding en Melkkunde – *Laboratory of Dairying* (Prof. Dr H. Mulder, Prof. Ir S. Hartmans), Lawickse Allee 13, Wageningen. Telephone 2563.

The laboratory, part of the Agricultural University, serves instructional as well as research purposes. There is a technical section in which dairy products can be made on a small scale.

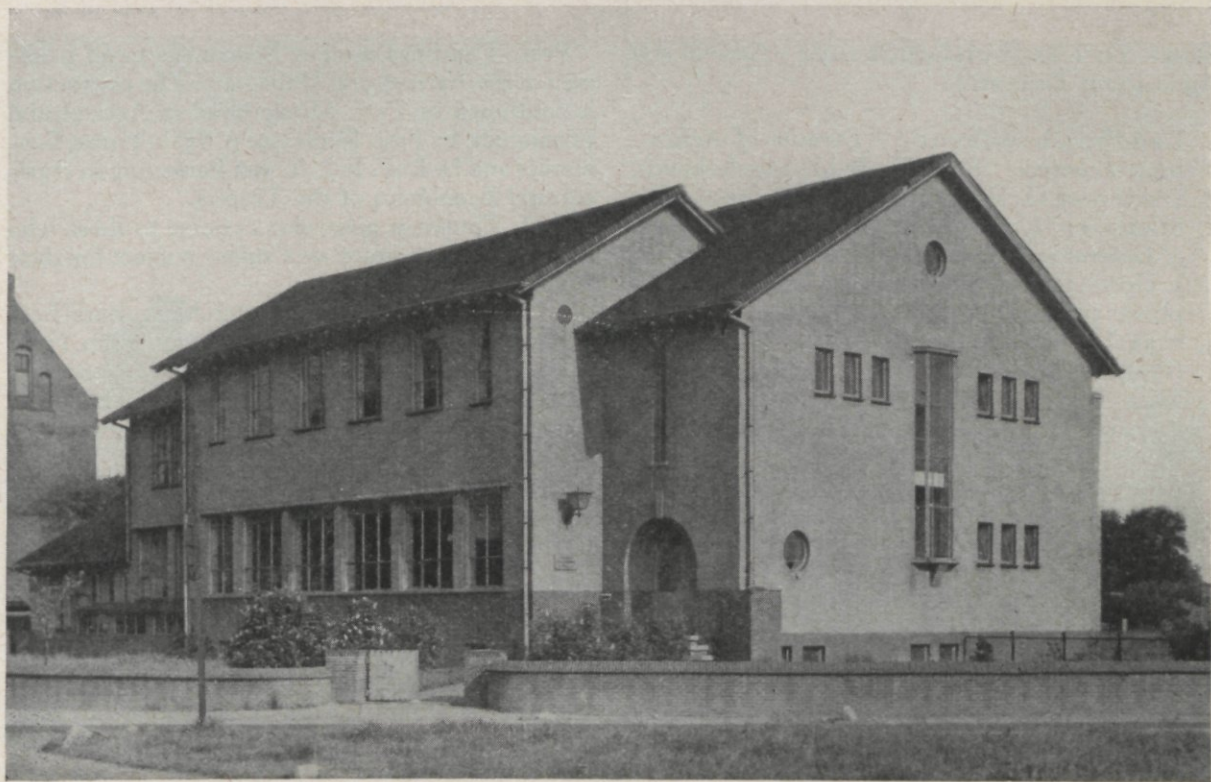
Regular contact is maintained with the dairy industry.

Instruction to students:

Prof. Dr H. Mulder, Dairy Science.

Prof. Ir S. Hartmans, Dairy Technology.

Research: Prof. Dr H. Mulder, Prof. Ir S. Hartmans, T. A. Zuidhof (chemistry), Ir J. J. Stadhouders (bacteriology) (dairying), and as interim workers: Ir A. J. v. d. Have, J. J. G. Schols, J. W. Menger, P. Meyers.



Laboratory of Dairying

Staat- en Landhuishoudkunde - *General and Agricultural Economics*.

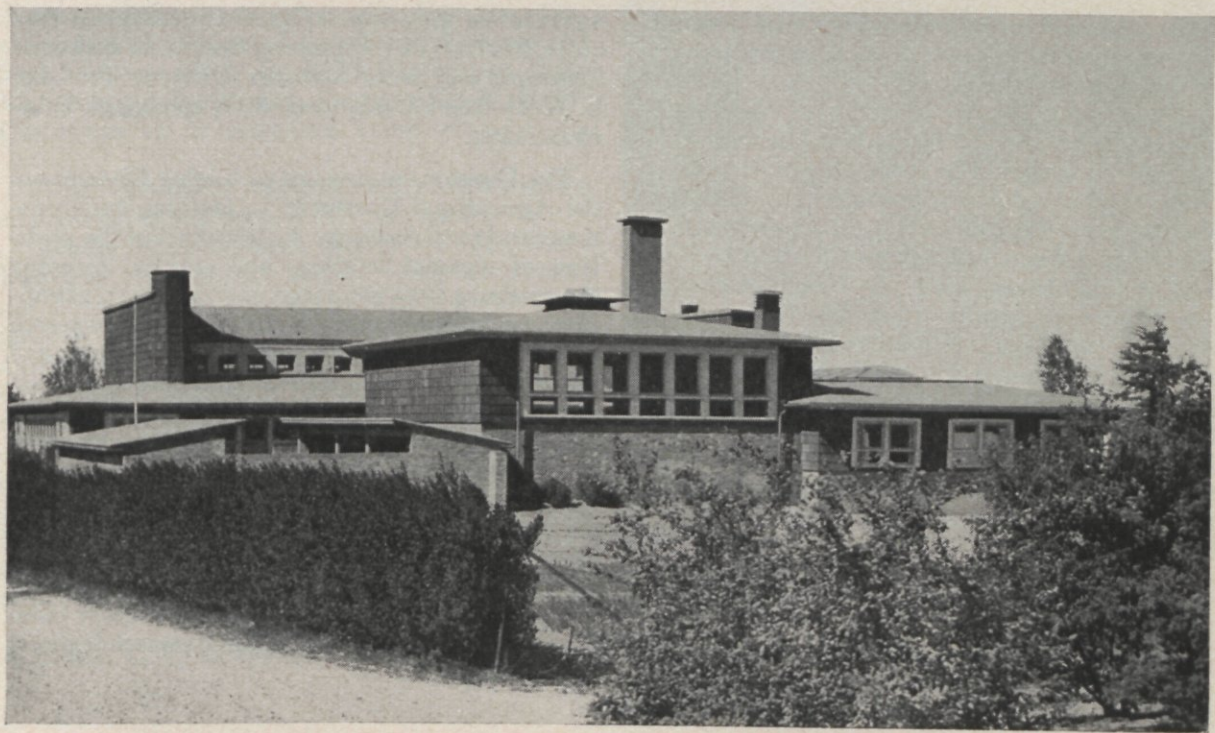
1. Landhuishoudkunde - *Division of Agricultural Economics* (Prof. Dr Ir G. Minderhoud), Diedenweg 18, Wageningen. Telephone 2462.
2. Staat- en Landhuishoudkunde - *Division of General and Agricultural Economics* (Prof. Dr J. Horrings), Van Stolkweg 29, Den Haag, Telephone 552350 (K 1700).
3. Staathuishoudkunde - *Division of Economics* (Prof. Dr Th. L. M. Thurlings), Diedenweg 18, Wageningen. Telephone 2462.
Research Officer: Drs A. A. P. van Drunen.
4. Rechts- en Staatswetenschap - *Division of Jurisprudence and Political Science* (Prof. Dr I. Samkalden), Diedenweg 18, Wageningen. Telephone 2462.
Research Officer: Ir K. A. Barkey.
5. Tropische Landhuishoudkunde - *Division of Agricultural Economics of the Tropics* (Prof. Ir J. A. van Beukering), Diedenweg 18, Wageningen. Telephone 2462.
Research Officer: Ir G. C. W. C. Tergast.

Prof. Thurlings teaches Economics to all freshmen of the Agricultural University. The instruction is continued by Prof. Minderhoud in Agricultural Economics, by Prof. Kools (see p. 85) in Forest Economics and by Prof. Ir J. A. van Beukering in Agricultural Economics of the Tropics.

Prof. Thurlings gives also a course to those who have taken economics as a minor subject for their engineer's degree.

Students who have chosen Dutch Agricultural Economics as major subject receive a course in Farm Management from Prof. Minderhoud and (together with the students majoring in Agricultural Economics of the Tropics) a course in Cost Accounting in Agriculture and International Economics from Prof. Horrings (whose main function is to direct the Landbouw-Economisch Instituut - the Agricultural Economics Research Institute - at The Hague).

Prof. Samkalden lectures in Civil Law, Agricultural Legislation, Administrative Law relative to Agriculture and some aspects of Public Law to students majoring in the Economics or the Field Crop Technology of Dutch Agriculture. Prof. Samkalden lectures also in Tropical Agricultural Legislation.



Auxiliary Building on the Diedenweg

The professors are represented in several committees and organizations which greatly furthers contact with the world at large.

As to the Division of Agricultural Economics of the Tropics, it should be noted that in the field of rural structure and organization big differences exist between the tropics and the temperate zone. In the tropics the prevailing type is the small peasant farm on a subsistence basis, together with what are often vast enterprises (estates). The typical West-European farm of 20-150 acres is about non-existent. The general economic and social conditions in rural areas are likewise different from those prevailing in Europe. The Agricultural University pays great attention to the study of agriculture in its social and economic aspects with a view to the development towards higher production and better standards of living.

Sociale en Economische Geografie en Sociale Statistiek - *Division of Social and Economic Geography and Social Statistics* (Director: Prof. Dr E. W. Hofstee), Diedenweg 18, Wageningen. Telephone 2462.

The Division co-operates with other Divisions of the Agricultural University in teaching rural economy and rural sociology. It specializes in the problems of regional sociology and regional economy the relations between social and economic phenomena being emphasized. At the moment its research activity is focussed on the study of the economic and social development of the rural districts in the Netherlands in relation to the population problem.

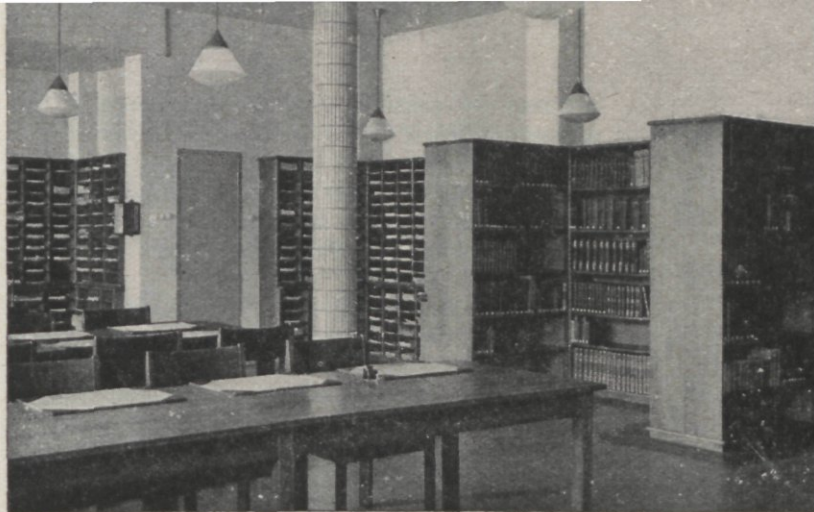
The Division collaborates with numerous institutes and committees in the field of social research and planning in the Netherlands, e.g. the Institute for Social Research in the Netherlands, the Government Service for National Planning, the departments for the reclamation and colonization of the Zuiderzee, provincial institutes for town and country planning, the Agricultural Economics Research Institute at The Hague, etc.

Agrarisch-Economische en -Sociale Geschiedenis—*Division of Agricultural Economic and Social History* (Prof. Dr B. H. Slicher van Bath, Kamplaan 24, Groningen, Phone 24663-K 5900); Diedenweg 18, Wageningen, Telephone 2462.

This division of the Agricultural University serves educational as well as research purposes.

Courses in agricultural history of the West-European countries and practical exercises in reading old manuscripts are given. The research takes place in cooperation with the Sociaal- en Economisch-Historisch Instituut der Rijksuniversiteit te Groningen – Institute of Social and Economic History at the University of Groningen. The common object of study is the social and economic history of the country in the northern and eastern regions of the Netherlands, mainly in the 18th century. Stress is laid upon the importance of such documentary material as tax registers and accounts as sources of exact data.

Assistant: H. K. Roessingh.



Reading room

Bibliotheek der Landbouwhogeschool – *State Agricultural Library* (Libr. Dr N. H. Kooiman), Rijksstraatweg 1A, Wageningen. Phone 2571.

In the years 1873/74 the first books were bought on behalf of a biennial course in agricultural education at the Wageningen Secondary School. This

act may be considered as the foundation of the Library. During the early years of its existence a number of donations and legacies largely contributed to its growth. The development into a library of scientific importance, however, dates back from 1918, the year of the foundation of the Agricultural University.

The new building has been erected in 1935, together with the Auditorium. The Library contains some 200.000 volumes and about 6000 sets of periodicals, 2000 of which are running series, bulletins and reports included. In the reading room a fair number of encyclopedias, dictionaries, handbooks and works of general information as well as the current issues of about 600 periodicals, are permanently at the disposition of the visitors.

The Library is free to everybody interested, in Wageningen and abroad, though of course it is mainly used by the staff and the students of the Agricultural University.

Staff:

Librarian: Dr H. N. Kooiman.

Conservator: Th. P. Loosjes.

Administration: Th. J. Ywema.

Centrum voor Landbouwdocumentatie -
Centre for Agricultural Documentation (Head: Th. P. Loosjes), Rijksstraatweg 1A, Wageningen. Telephone 2660.

The task of this centre is threefold:

1. Editing and publishing of the weekly "Landbouwdocumentatie" (G. Koster).
2. Building up of documentation systems (F. Æ. Koekebakker).
3. Literature information and compilation of bibliographical lists in the field of agriculture (Th. P. Loosjes).

The centre has one permanent representative (F. A. Sneepels) in the Library of the Ministry of Agriculture at the Hague especially for the economic and statistical information.

Internationaal Landbouwstudiecentrum –
International Agricultural Study Centre (Prof. Dr Ir
C. Coolhaas, Ir A. H. Haak), Prof. Ritzema Bosweg
32, Wageningen. Telephone 3173. Telegrams:
INTAS.

People of all nations are now in a position to benefit by the Netherlands' unique farming experience. Members of the University staff place their experience in tropical and in temperate-climate farming at the disposal of those who would like to take advantage of it.

To this end the *International Agricultural Study Centre* at Wageningen, Holland's agricultural capital, has been established.

Post-graduate courses in agriculture, horticulture and forestry are to be given in English, and if enough French-speaking students enroll, in French as well. Each student has a free choice of subjects, both major or minor. All instruction will be individual, so the courses may be embarked upon at any time. In addition to the individual instructions, summer courses on a selection of subjects are to be given during a predetermined period.

Certificates will be issued on the successful completion of a program.

Reception and accommodation are arranged for.

To assist prospective applicants for post-graduate education, a booklet has been issued by the International Agricultural Study Centre.

X. Hotels and Busses

The town is situated between sandy, wood covered hills and the clayey valley of the Rhine. One of the highways, running from Arnhem to Utrecht traverses it and it is connected by bus with the railway stations of Ede and Arnhem.

Many visitors have stayed at Hotel Wentholt, Hoogstraat 88, Wageningen, Telephone 2035 (K 8370); and Hotel Hof van Gelderland, Nudestraat 17, Wageningen, Telephone 2461 (K 8370).

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XIII. Explanation of the plan

AGRICULTURAL UNIVERSITY

- A Main Building, Organic Chemistry, Physical and Colloid Chemistry, Agricultural Chemistry, Road Construction and Water Engineering, Technology.
- B Auditorium, Library.
- C Tropical Agriculture.
- D General Botany.
- E Plant Taxonomy and Geography, Entomology.
- F Forestry.
- G Plant Physiological Research.
- H Surveying, Landscape Architecture.
- J Microbiology.
- K Genetics.
- L Economics, Geography and Statistics.
- M Technology (new laboratory in course of construction).
- P Animal Physiology.
- Q Physics and Meteorology, Mineralogy and Geology.
- R Animal Husbandry.
- S Agricultural Machinery and Rural Buildings.
- T Auxiliary Building.
- U Dairying.
- V Horticulture.
- W Phytopathology.
- X Animal Physiology (new laboratory in course of construction).
- Y Field Crop Husbandry.
- Z Agricultural Plant Breeding.

AUTONOMOUS INSTITUTES

- 1. Forest Research Station.
- 2. General Netherlands Inspection Service for Seeds of Field Crops and for Seed Potatoes (N.A.K.).
- 3. Dutch Flax Institute (see 22).
- 4. Agricultural Office for Basic Slag.
- 5. Laboratory of Research in Agricultural Chemistry.
- 6. Institute for Research on Varieties of Field Crops.
- 7. Institute of Horticultural Engineering (see 19).
- 8. Foundation for Agricultural Plant Breeding.
- 9. Central Experiment Field for Manuring of Fruit Trees.
- 10. Laboratory for Drying Research.
- 11. Central Institute of Agricultural Research (see 21).
- 12. Central Institute of Nutrition Research, Cereals Division.
- 13. Government Seed Testing Station.
- 14. Experiment Station of Milling and Baking.
- 15. Institute of Phytopathological Research.
- 16. Institute for Research on Storage and Processing of Horticultural Produce.
- 17. Netherlands Ship Model Basin.
- 18. Plant Protection Service.
- 19. Institutes of Horticultural and Agricultural Engineering.
- 20. Institute of Horticultural Plant Breeding.
- 21. Central Institute of Agricultural Research (new laboratory under construction).
- 22. Dutch Flax Institute (new laboratory under construction).
- 23. Foundation for Potato Storage.
- 24. Experiment Farm of the I.V.R.O.

XIII. Explanation of the plan

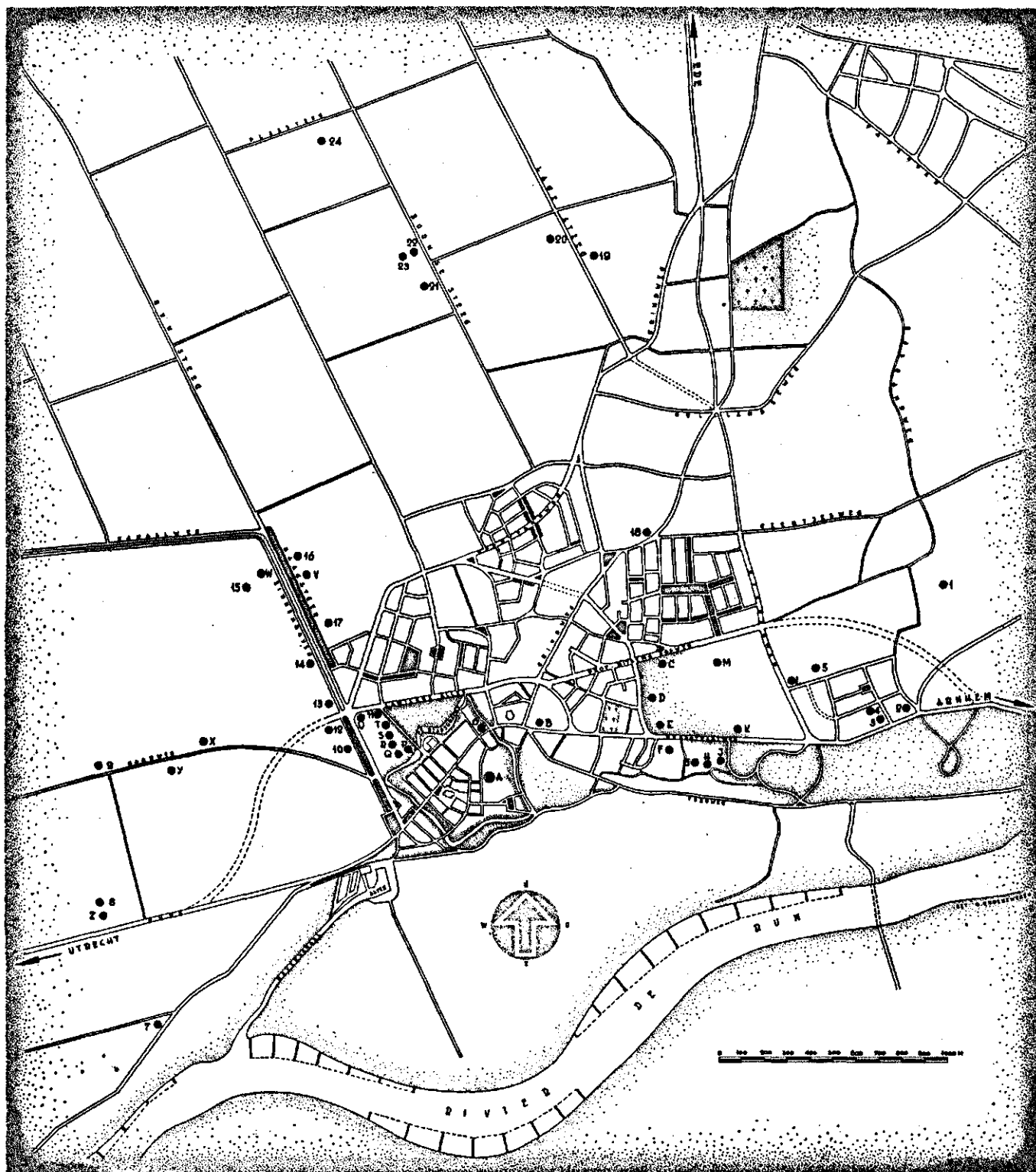
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WAGENINGEN WITH INDICATION OF LABORATORIES AND INSTITUTES





Position of Wageningen with respect to the most important Dutch cities