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WAGENINGEN-NETHERLANDS
CENTRE OF AGRICULTURAL SCIENCE

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WAGENINGEN (NETHERLANDS) CENTRE OF AGRICULTURAL SCIENCE

1951

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1876-1951

Seventy five years ago, a modest government agricultural school was founded at Wageningen. It gradually developed into the present important agronomic centre.

This evolution is aptly expressed by a latin quotation figuring on the facade of one of the laboratories: Tandem fit surculus arbor — one day the scion will become a tree.

I. *Agricultural University*

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

Landbouwhogeschool – *Agricultural University* (Rector Magnificus), Herenstraat 18, Wageningen. Telephone 2662.

Secretariaat – *Secretariat* (D. Bosman), Herenstraat 18, Wageningen. Telephone 2662.

Administratie – *Administration* (F. Wieringa), Herenstraat 18, Wageningen. Telephone 2141.

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

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

Hulpgebouw aan de Diedenweg – *Auxiliary Building on the Diedenweg*. Diedenweg 18, Wageningen. Telephone 2462 (see p. 73).

Bibliotheek der Landbouwhogeschool – *State Agricultural Library* (Libr.: Dr H. N. Kooiman), Rijksstraatweg 1A, Wageningen. Telephone 2571 (see p. 75).

Agrarisch-Economische en -Sociale Geschiedenis – *Agricultural Economic and Social History* (Prof. Dr B. H. Slicher van Bath), Kamplaan 24, Groningen. Telephone 24663 (K 5900).

Algemene Landbouwkunde – *General Agronomy* (Prof. Ir W. J. Dewez), Herenstraat 18, Wageningen. Telephone 2876 (see p. 42).

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. 19).

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), Telephone 3335, Lisse, South Holland (see p. 34).

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. 63).

Bouwkunde en Stedebouw – *Architecture and City Planning* (Prof. Wieger Bruin), Diedenweg 18, Wageningen. Telephone 2463.

Cultuurtechniek – *Division of Drainage and Reclaiming of Lands* (Prof. Ir F. Hellinga), Duivendaalse laan 7, Wageningen. Telephone 2416 (see p. 32).

Laboratorium voor Entomologie – *Entomological Laboratory* (Prof. Dr W. K. J. Roepke), Rijksstraatweg 37, Wageningen. Telephone 2438 (see p. 35).

Laboratorium voor Erfelijkheidsleer – *Laboratory of Genetics* (Prof. Dr R. Prakken), Rijksstraatweg 53, Wageningen. Telephone 2338 (see p. 23).

Laboratorium voor Landbouwplantenteelt – *Laboratory of Field Crop Husbandry* (Prof. Ir W. J. Dewez), Herenstraat 18, Wageningen. Telephone 2876 (see p. 41).

Laboratorium voor Landbouwscheikunde – *Laboratory of Agricultural Chemistry* (Prof. Dr A. C. Schuffelen), Herenstraat 18, Wageningen. Telephone 2123 (see p. 27).

Instituut voor Landbouwwerktuigen en -gebouwen – *Institute of Agricultural Machinery and Rural Buildings* (Prof. Ir G. Riemer Jzn), Duivendaalse laan 7, Wageningen. Telephone 2147.

Laboratorium voor Landmeten en Waterpassen – *Laboratory of Surveying and Leveling* (Prof. A. Kruidhof), Rijksstraatweg 53, Wageningen. Telephone 2934 (see p. 32).

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 (see p. 75).

Laboratorium voor Microbiologie – *Microbiological Laboratory* (Prof. Dr Jan Smit), Hesselink van Suchtelenweg 4, Wageningen. Telephone 2771 (see p. 24).

Laboratorium voor Natuurkunde en Weerkunde – *Laboratory of Physics and Meteorology* (Prof. Dr W. R. van Wijk), Duivendaalse laan 2, Wageningen. Telephone 2001 (see p. 25).

Laboratorium voor Organische Chemie – *Laboratory of Organic Chemistry* (Prof. Dr H. J. den Hertog), Herenstraat 16, Wageningen. Telephone 2937 (see p. 26).

Laboratorium voor Physiologie der Dieren – *Laboratory of Animal Physiology* (Prof. Dr E. Brouwer), Duivendaalse laan 1, Wageningen. Telephone 2923 (see p. 68).

Laboratorium voor Physische en Colloïdchemie – *Laboratory of Physical and Colloid Chemistry* (Prof. Dr H. J. C. Tendeloo), Herenstraat 20, Wageningen. Telephone 2403 (see p. 26).

Laboratorium voor Phytopathologie – *Laboratory of Phytopathology* (Prof. Dr A. J. P. Oort), Binnenhaven 4, Wageningen. Telephone 2834 (see p. 35).

6 Instituut voor Phytopathologie en Entomologie – *Institute of Phytopathology and Entomology* (com-

prising three laboratories, two of which are established at Wageningen – the Laboratory of Phytopathology 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. 20).

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. 22).

Laboratorium voor Regionale Bodemkunde, Mineralogie en Geologie – *Laboratory of Regional Pedology, Geology and Mineralogy* (Prof. Dr Ir C. H. Edelman, Dr D. J. Doeglas), Duivendaalse laan 2, Wageningen. Telephone 2363 (see p. 30).

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. 74).

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

- 1) Landhuishoudkunde - *Division of Agricultural Economics* (Prof. Dr Ir G. Minderhoud), Diedenweg 18, Wageningen. Telephone 2462 (see p. 72).
- 2) Staat- en Landhuishoudkunde - *Division of General and Agricultural Economics* (Prof. Dr J. Horring), Van Stolkweg 29, Den Haag. Telephone 552350 (K 1700) (see p. 72).
- 3) Staathuishoudkunde - *Division of Economics* (Prof. Dr Th L. M. Thurlings), Diedenweg 18, Wageningen. Telephone 2462 (see p. 72).
- 4) Rechts- en Staatswetenschap - *Division of Jurisprudence and Political Science* (Prof. Mr C. H. F. Polak), Diedenweg 18, Wageningen. Telephone 2462 (see p. 72).
- 5) Tropische Landhuishoudkunde en het Indonesisch Agrarisch Recht - *Division of Tropical Economics and Indonesian Agricultural Legislation* (.), Diedenweg 18, Wageningen. Telephone 2462 (see p. 72).

Laboratorium voor Technologie - *Technological Laboratory* (Prof. Dr Ir H. A. Leniger), Herenstraat 21, Wageningen. Telephone 2638 (see p. 27).

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. 66).

Laboratorium voor Tuinbouwplantenteelt - *Horticultural Laboratory* (Prof. Dr Ir S. J. Wellensiek), Haagsteeg 3, Postbus 30, Wageningen. Telephone 2441 and 2442 (see p. 55).

Tuin- en Landschapsarchitectuur - *Division of Landscape Architecture* (Prof. Dr Ir J. T. P. Bijhouwer), Diedenweg 18, Wageningen. Telephone 2463 (see p. 62).

Laboratorium voor Veeteelt - *Laboratory of*

Animal Husbandry (Prof. Ir W. de Jong, Dr Th. de Groot), Duivendaalse laan 3A, Wageningen. Telephone 2473 (see p. 69).

Instituut voor Veredeling van Landbouwgewassen - *Institute of Plant Breeding* (Prof. Dr Ir J. C. Dorst), Nude 66, Wageningen. Telephone 2942 (see p. 42).

Virologie - *Virology* (Prof. Dr T. H. Thung) Binnenhaven 4A, Wageningen. Telephone 2151 (see p. 37).

Weg- en Waterbouwkunde - *Division of Road Construction and Water Engineering* (Prof. Ir W. F. Eijssvoegel), Herenstraat 18, Wageningen. Telephone 2135 (see p. 31).

Wiskunde - *Mathematics* (Prof. Dr N. H. Kuiper), Hulpgebouw, Duivendaalse laan 9A, Wageningen. Telephone 2218.

Laboratorium voor Zuivelbereiding en Melk-
kunde - *Laboratory of Dairying* (Prof. Dr H. Mulder, Prof. Ir S. Hartmans), Lawickse Allee 1A, Wageningen. Telephone 2563 (see p. 70).

EMERITI:

Prof. Dr D. L. Bakker, Rijksstraatweg 54, Wageningen. Telephone 2008.

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. Ir H. K. H. A. Mayer Gmelin, Rijksstraatweg 85, Wageningen. Telephone 2262.

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.

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),
Duivendaalse laan 2, Wageningen. Telephone 2363
(see p. 30).

Botanisch Graslandonderzoek – *Botanical Grass-
land Research* (Dr D. M. de Vries), Duivendaal 10,
Wageningen. Telephone 2645 (see p. 47).

Graslandexploitatie – *Grassland Management* (Ir
M. L. 't Hart), Duivendaal 10, Wageningen. Tele-
phone 2645 (see p. 47).

Landbouwarchitectuur – *Farm Buildings* (Ir G.
Pothoven), Duivendaalse laan 7, Wageningen. Tele-
phone 2416.

Land- en Volkenkunde en de Indonesische
Talen – *Social Anthropology and the Indonesian Lan-
guages* (Dr F. H. van Naerssen), Diedenweg 18,
Wageningen. Telephone 2463 (see p. 75).

Plantensystematiek en Plantengeographie –
Plant Taxonomy and Phytogeography (Dr J. G. B. Beu-
mée), Rijksstraatweg 37, Wageningen. Telephone
2925 (see p. 22).

Plantkunde – *Botany* (Mrs Dr C. A. Reinders-
Gouwentak), Arboretumlaan 4, Wageningen. Tele-
phone 2594 (see p. 19).

Tropische Landbouwplantenteelt – *Tropical
Agriculture* (Ir G. G. Bolhuis), Prof. Ritzema Bosweg
32, Wageningen. Telephone 2193 (see p. 66).

Veeteeltwetenschap – *Animal Husbandry* (Dr Th.
de Groot), Duivendaalse laan 3A, Wageningen. Tele-
phone 2473 (see p. 70).

Werktuigkunde en Werktuigkundig Tekenen
– *Mechanical Engineering and Machine Drawing* (Ir C. A.
Bijlaard), Duivendaalse laan 7, Wageningen. Telephone
2416.

ASSOCIATES:

The following associates are giving courses at the Agricultural University.

Bijenteelt en Zijderupsenteelt – *Beekeeping and Sericulture* (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 3352 (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* (J. Verwey), Van Borsselelaan 5, Ede.

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. 61).

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

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

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

Kunstgeschiedenis – *History of Art* (Jhr. Dr J. S. Witsen Elias), Matthijssenhoutweg 2b, Blaricum. Telephone 3803 (K 2953).

Nederlandse Volkskunde – *Ethnology of the Netherlands* (Dr Win. Roukens), Diedenweg 18, Wageningen. Telephone 2462.

Pluimveeteelt – *Poultry Husbandry* (Ir P. Ubbels, Director Government Poultry Institute), 't Spelderholt 9, Beekbergen. Telephone 241 (K 6766).

Proefveldtechniek – *Design and Technique of Field Experiments* (E. van der Laan), Kornoeljestraat 60, 's-Gravenhage. Telephone 391148 (K 1700).

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).

Verbandleer – *Rural Hygiene and First Aid* (J. Le Roy), Kastanjelaan 16, Velp. Telephone 2295 (K 8300).

Zaadteelt – *Seed Production* (Ir G. T. Grooters), Van Gaesbekestraat 15, Voorburg. Telephone 722595 (K 1700).

II. *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. 64).

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. 61).

Centraal Instituut voor Landbouwkundig Onderzoek – *Central Institute of Agricultural Research* (Acting Director Ir J. Wind), Duivendaal 10, Wageningen. Telephone 2645 (see p. 46).

Centraal Instituut voor Voedingsonderzoek T.N.O., Afdeling Graan-, Meel- en Broodonderzoek – *Central Institute of Nutrition Research, Cereals Department* (Drs H. M. R. Hintzer), Grindweg 109A, Wageningen. Telephone 2680 (see p. 52).

Instituut voor Bewaring en Verwerking van Tuinbouwproducten – *Institute for Research on Storage and Processing of Horticultural Produce* (Ir A. K. Zweede), Haagsteeg 3, Wageningen. Telephone 2281 (see p. 59).

Instituut voor Landbouwtechniek en Rationalisatie – *Institute of Agricultural Engineering and Rationalization* (Ir H. H. Postuma), Nieuwe weg 30, Wageningen. Telephone 2050 (see p. 33).

Instituut voor Plantenziektenkundig Onderzoek (I.P.O.) – *Institute of Phytopathological Research* (Dr J. G. ten Houten), Binnenhaven 4A, Wageningen. Telephone 2151 (see p. 37).

Instituut voor Tuinbouwtechniek – *Institute of Horticultural Engineering* (Dr Ir E. W. B. van den Muijzenberg), Grebbedijk 12, Wageningen. Telephone 2578 (see p. 62).

Instituut voor de Veredeling van Tuinbouwgewassen – *Institute of Horticultural Plant Breeding* (Dr O. Banga), Herenstraat 25, Wageningen. Telephone 2805 (see p. 56).

Laboratorium voor Bemestingsonderzoek – *Plant Nutrition Research Laboratory* (Dr J. J. Lehr), Diedenweg 20, Wageningen. Telephone 2869 (see p. 29).

Laboratorium voor Landbouwscheikundig Onderzoek (*Laboratory of Research in Agricultural Chemistry*) (Prof. Ir J. Hudig), Dr Boeslaan 21, Wageningen. Telephone 2732 (see p. 28).

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. 49).

Nederlands Vlasinstituut – *Dutch Flax Institute* (Ir J. I. C. Butler), Rijksstraatweg 107, Wageningen. Telephone 2497 (see p. 49).

Plantenziektenkundige Dienst – *Phytopathological Service* (Dr C. J. Briejër), Oude Bennekomseweg 9, Wageningen. Telephone 2741 (see p. 40).

Rijksinstituut voor Rassenonderzoek van Landbouwgewassen – *Government Institute for Research on Varieties of Field Crops* (Ir J. K. Groenewolt), Hoogstraat 105, Wageningen. Telephone 2820, 2803 and 2802 (Lab.) (see p. 45).

Rijks Proefstation voor Zaadcontrôle – *Government Seed Testing Station* (Dr Ir A. F. Schoorel), Binnenhaven 1, Wageningen. Telephone 2731 (see p. 51).

Station voor Maalderij en Bakkerij – *Experiment Station of Milling and Baking* (Dr J. van der Lee), Binnenhaven 2, Wageningen. Telephone 2474 (see p. 53).

Stichting voor Bodemkartering – *Soil Survey Institute* (Prof. Dr Ir C. H. Edelman), Bovenweg 7, Bennekom. Telephone 247 (K 8379). (see p. 30).

Stichting voor Plantenveredeling (S.V.P.) – *Foundation for Plant Breeding* (Director: Prof. Dr Ir J. C. Dorst; Secr.: Ir G. Veenstra), Nude 66, Wageningen. Telephone 2942 (see p. 44).

Stichting Proeftuin voor Tabak – *Experiment Station of Domestic Tobaccos* (Ir R. van der Ven), Rijkstraatsweg 53, Wageningen. Telephone 2338 (see p. 61).

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. 29).

III. Various Agricultural Organizations

Broekemafonds – *Broekema Foundation* (Secr.: Prof. Dr Ir J. C. Dorst), Nude 66, Wageningen. Telephone 2942.

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), Bosrandweg 3, Wageningen. Telephone 2908.

Commissie ter Bevordering van het Kweken en het Onderzoek van nieuwe Aardappelrasen – *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 G. Minderhoud), Diedenweg 18, Wageningen. Telephone 2462.

Hesselink van Suchtelenfonds – *Hesselink van Suchtelen Foundation* (Secr.: Prof. Dr Ir S. J. Wellensiek), Haagsteeg 3, Postbus 30, Wageningen. Telephone 2441.

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

Landbouwkundig Bureau voor Thomasslakkenmeel – *Agricultural Office of Basic Slag* (Ir H. J. Gerritsen), Hamelakkerlaan 13, Wageningen. Telephone 2188.

Nederlands Genootschap voor Landbouwwetenschap – *Dutch Society of Agricultural Science* (Secr.: Ir P. Buringh), Goudenregenstraat 2, Wageningen. Telephone 2650.

Nederlands Instituut van Landbouwkundig Ingenieurs – *Dutch Association of Agricultural Engineers* (Secr.: Ir A. P. Kole), Rijksstraatweg 61, Wageningen. Telephone 2573.

Nederlandse Kwekersbond – *Dutch Association of Plant Breeders* (Secr.: Dr H. de Haan), Nude 66, Wageningen. Telephone 2942.

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 R. P. H. P. van der Schans), Bosweg 32, Bennekom. Telephone 247 (K 8379).

Regelingscommissie voor de Tropische Landbouweken – *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. 45).

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

Stichting voor Coördinatie van Cultuur en Onderzoek van Broodgraan (Cocobro) – *Foundation for the Coordination of the Culture and the Research in regard to 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* (Adviser: Ir S. Iwema), Lijsterbeslaan 11, Wageningen. Telephone 2960.

Studiekring voor Ecologie en Phaenologie – *Study Club of Ecology and Phenology* (Secr.: Ir L. P. Flipse), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

Studiekring voor Plantenveredeling – *Study Club of Plant Breeding* (Secr.: Dr A. E. H. R. Boonstra, Acting Secr.: Ir D. Kloen), Nude 66, Wageningen. Telephone 2942.

IV. 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.

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

Rijkslandbouwconsulent voor Bodemaangelegenheden – *Agricultural Advisory Officer in Matters relating to the Soil and Manuring* (Ir S. F. Kuipers), Bovenweg 7, Bennekom. Telephone 247 (K 8379).

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

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

Rijkslandbouwconsulent voor de Teelt van Fijne Landbouwzaden – *Agricultural Advisory Officer for the Growing of Fine Agricultural Seeds* (Ir B. H. Olthoff), Lijsterbeslaan 9, Wageningen. Telephone 2798.

Rijkslandbouwconsulent voor Voorlichting op het Gebied van Ziekten van Landbouwgewassen – *Agricultural Advisory Officer for Diseases of Crop Plants* (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), Binnenhaven 4A, Wageningen. Telephone 2151 (see p. 59).

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).

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

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. This is due to the firm nature of the geological substratum at Wageningen, which is necessary to the experiments conducted in the basin.

V. Description of the Institutions

On the preceding pages a survey has been given of the laboratories, institutes, services and bureaus established at Wageningen. All received equal attention. This survey, however, does not provide any indication as to the size of the institutes; neither does it mention the personnel engaged.

This chapter is intended to bring the working program of most laboratories and institutes to the notice of the visiting travelers. The members of the staffs are mentioned and photos of the buildings are given, which will 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 survey 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. 76).

At the end will be found a plan of Wageningen showing the location of the institutions (see explanation of the plan on p. 84).

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

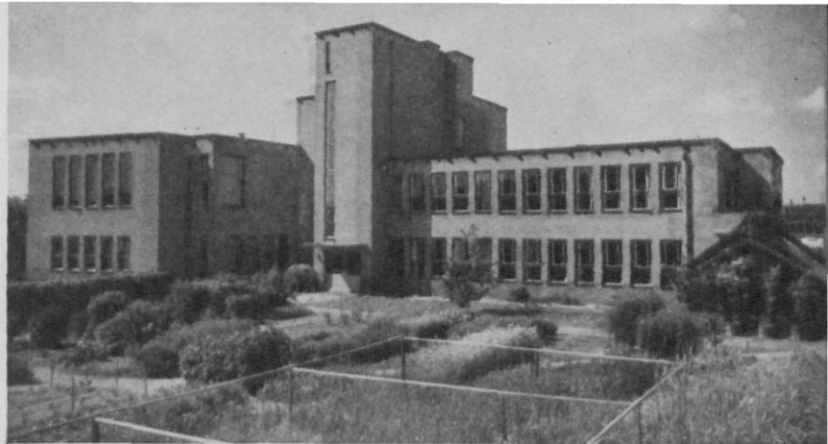
The laboratory is a Division of the Agricultural
University. Undergraduate and graduate lectures and
laboratory teaching are given in general plant anatomy,
wood and bark anatomy and plant physiology.

The research work comprises wood anatomical and
plant physiological subjects.

Investigations in plant physiology are carried out by
Mrs Dr C. A. Reinders-Gouwentak with advanced
students. Wood anatomical work is undertaken by
Mrs Dr C. A. Reinders-Gouwentak, Miss Dr J. de
Zeeuw, Ir A. S. de Bruyne, Ir J. F. Rijdsdijk (research
fellow of the L.E.B. Foundation, Wageningen), 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), Ir A. S.
de Bruyne, one graduate botanist (vacant), seven ad-
vanced students.

Research in progress:



Laboratory of General Botany

Effects of 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 assay.
The rhizocaline problem.
Structure of wood rays.
Hand-lens and microscopical descriptions of Surinam
wood collections.

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

This laboratory is a Division of the Agricultural University. Special physiological problems are studied here by the staff and by advanced students, accompanied by lectures and colloquia. (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 -20°C to $+45^{\circ}\text{C}$. Constant temperatures combined with daylight can be supplied in specially constructed 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 regulated temperature and illumination; studies on the mechanism and the energy yield of photosynthesis with microorganisms and higher plants in connection with the problem of solar energy conversion and in relation to racial diversity; studies in photoperiodism and vernalization

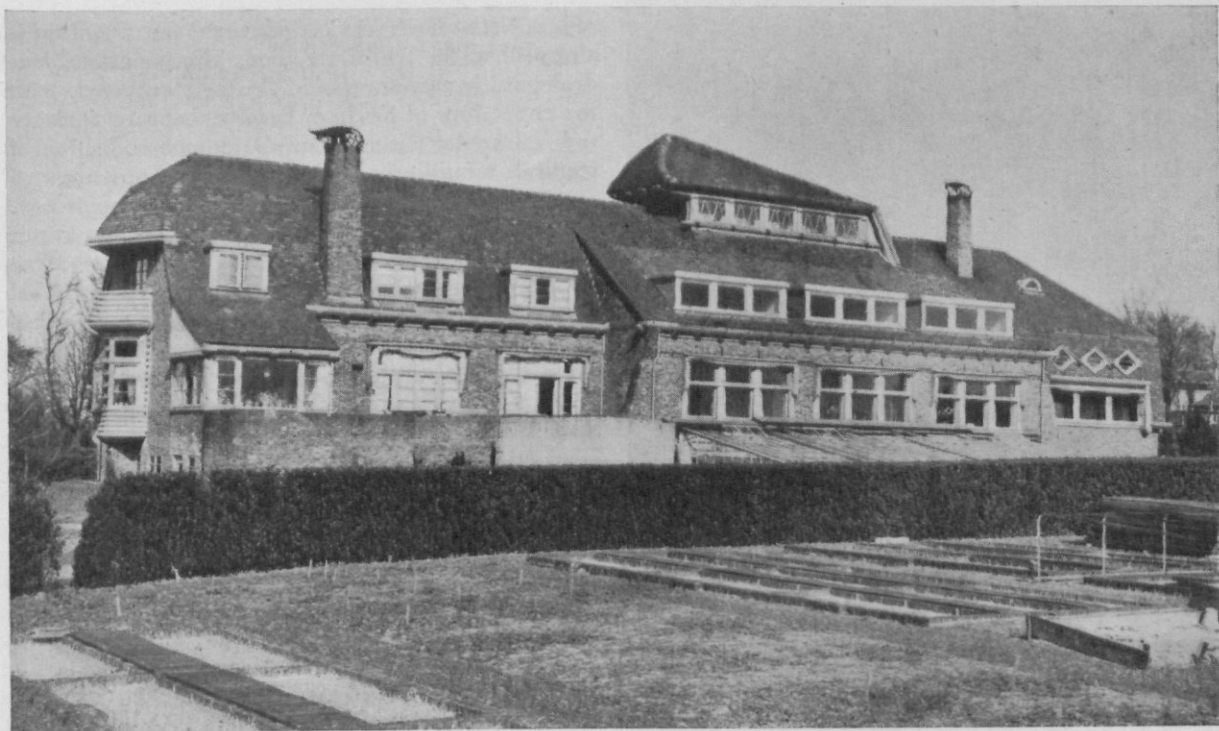
in connection with quantity and quality of light and in relation to metabolism; formative influences of light; metabolism of compact organs, e.g. potatoes in connection with problems of storage.

Director: Prof. Dr E. C. Wassink.

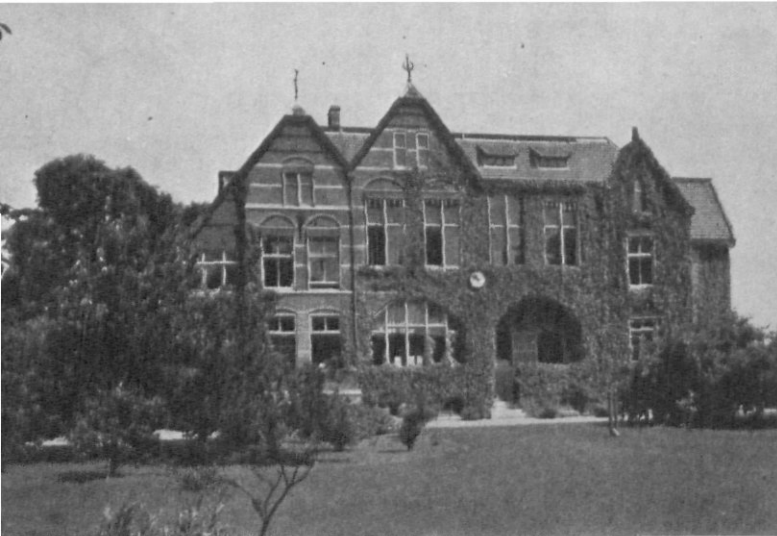
Research: Prof. Dr E. C. Wassink, Mrs I. Olivier-Luyten, Miss Dr A. M. Hartsema, Dr Ir J. E. Tjia, Miss Dra C. v. d. Scheer (physicist), Dr C. J. P. Spruit (chemist), Ir J. F. G. M. Wintermans (assistant), Ir J. A. J. Stolwijk (with subvention of the National Council for Fundamental Scientific Research (Z.W.O.)), Ir J. F. Bierhuizen (Mekog).

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

In 1949 the Philips Biophysical Group (Dr R. v. d. Veen), which started in 1947 in this Institute with research chiefly on photosynthesis (in collaboration with the director of this Institute), moved to their newly established facilities in the Philips Research Laboratory, Eindhoven. Intimate connections with the present Institute are being retained.



Laboratory of Plant Physiological Research



*Laboratory of
Plant Taxonomy
and Geography*

*Entomological
Laboratory*

Laboratorium voor Plantensystematiek en
-geographie – *Laboratory of Plant Taxonomy and Geo-
graphy* (Director: Prof. Dr H. J. Venema), Rijksstraat-
weg 37, Wageningen. Telephone 2925.

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. The important den-
drological herbarium should also be mentioned, 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 seat in this
laboratory.

The Arboretum serves in the first place instructional
purposes, but it is also important to landscape archi-
tects, dendrologists and nurserymen. The aim is to
bring together the most valuable ornamental plants,
resistant to the winters of this region.

Staff:

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

Taxonomical Research: Prof. Dr H. J. Venema (orna-
mental plants), Dr J. G. B. Beumée (tropical
plants), Dr V. Westhoff (Bryology), Miss Ir L. Koop-
man (Dendrology).

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

Assistants: H. W. Renkema, R. W. Becking and Miss
A. C. Corts.

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

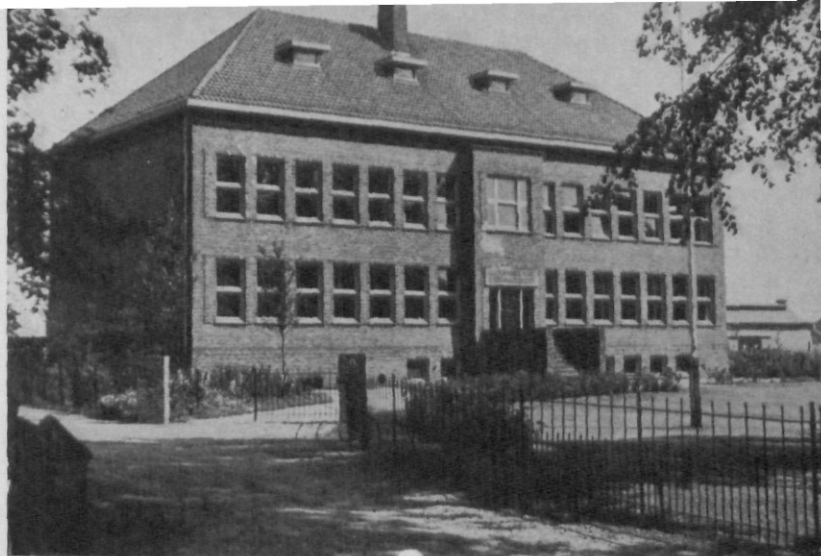
The Laboratory of Genetics is a Division of the Agricultural University, hence the training of students constitutes an important part of its working program. The various genetical and cytological investigations are partly conducted in collaboration with students.

The genetical investigations are mainly concerned with *Nicotiana*, *Phaseolus*, *Pisum* and *Matthiola*. In poultry the cross between Noordhollandsche Blauwe and Barnevelder is studied, especially in connection with auto-sexing problems.

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

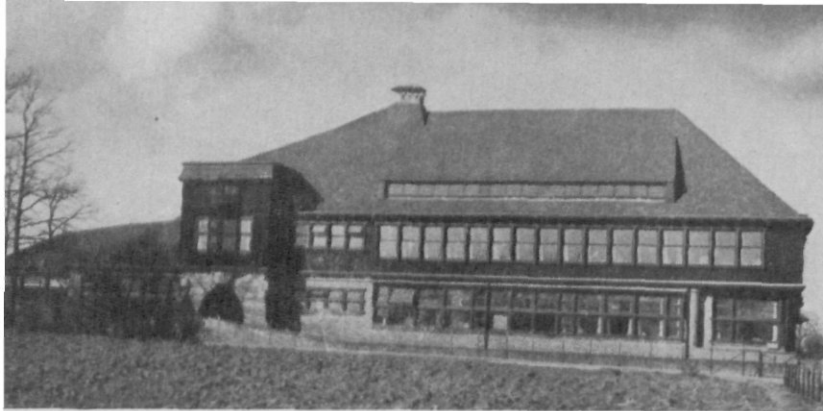
The cytogenetical investigations mainly concern the effects of inbreeding in *Secale*, while polyploidization experiments are carried out with *Populus*, *Forsythia*, *Solanum*, *Spinacia* en *Lactuca*.

The large hothouses are used for experiments with tobacco, tomato, lupine, topinambou (*Helianthus tuberosus*), etc.



Laboratory of Genetics

Staff:
Director: Prof. Dr R. Prakken.
Botanist: Drs G. J. F. Becker.



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 far it is detected in fresh milk by the ring reaction; study of the rôle of microorganisms in the digestion in the rumen of herbivora; production by microbes of antibiotics; detection of deficiency diseases (Cu, Mg, Mn) by microbiological and chemical methods.

Students are following a practical course in general microbiology during 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.

Assistants: Ir S. van der Weele, 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 Natuurkunde en Weerkunde – *Laboratory of Physics and Meteorology* (Director: Prof. Dr W. R. van Wijk), Duivendaalse laan 2, Wageningen. Telephone 2001.

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

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.

Another main line of research concerns the physics of the industry based upon agricultural products. Unit physical operations, solvent extraction, diffusion, distillation are studied.

The laboratory is in regular contact with the Royal Meteorological Institute at De Bilt which is the main centre for Meteorology in the Netherlands. Observations and registrations of radiation, subsurface temperatures, air temperatures and humidity, wind speed and direction at different heights, precipitation, etc. are made. A graphical representation of these data is published monthly and used by several agricultural institutes. Measurements of heat transmission,



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

air flow resistance and other subjects have been carried out for other institutes.

Staff:

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

Chemical Engineer: Ir A. S. Vos.

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

Assistant: Ir C. T. de Wit.

Laboratorium voor Organische Chemie -
Laboratory of Organic Chemistry (Director: Prof. Dr
H. J. den Hertog), Herenstraat 16, Wageningen.
Telephone 2937.

This Laboratory is a Division of the Agricultural
University.

Graduate students are trained in analytical and syn-
thetical work 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:
on heterocyclic compounds with characteristic bio-
chemical properties,
on analogs of colchicine,
on reaction mechanisms 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 H. W. J. Ragetli.

Laboratorium voor Fysische en Colloïd-
chemie - *Laboratory of Physical and Colloid Chemistry*
(Director: Prof. Dr H. J. C. Tendeloo), Herenstraat
20, Wageningen. Telephone 2403.

In this laboratory, which forms part of the Agri-
cultural University, first year's students get practice
in inorganic chemistry. The exercises bear upon
qualitative and quantitative analysis (titration and
gravimetry). More advanced students have the oppor-
tunity to perform laboratory work in physical and
colloid chemistry (pH determinations conductivity,
viscosity, adsorption, stability of colloidal solutions,
etc.).

Furthermore special research is done by graduate
students, as much as possible on new subjects, some-
times in relation with the investigations being pursued
by the director and his assistants.

The research work covers various subjects such as:
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 Experimental 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, and investigations are pursued aiming 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 may be divided in instruction to advanced students and research. Special attention is paid to the industrial chemistry and chemical engineering aspects of the technological problems.

Laboratorium voor Landbouwscheikunde – *Laboratory of Agricultural Chemistry* (Director: Prof. Dr A. C. Schuffelen), Herenstraat 18, Wageningen. Telephone 2123.

In this laboratory the advanced students, with the aid of the director and his assistants, orientate themselves in theoretical and laboratory aspects of Soil Chemistry, Soil Physics and Soil Fertility.

This aid consists in giving lectures (2 hours a week during $3\frac{1}{2}$ years) on the above mentioned branches of Soil Science by the director, while the assistants are responsible for the education of the students during the work in the laboratory (lasting about 6 months and including routine determinations as well as special research).

As to special research by the director and his assistants, the following problems are under investigation: 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).



Laboratory of Research in Agricultural Chemistry

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

Especially soil research work in connection with
plant nutrition.

Collaboration with the research laboratories of the
Netherlands Superphosphate Industries and other
laboratories for research on fertilizers.

Staff:

Prof. Dr A. C. Schuffelen, Assistants: Dr Ir
H. A. Middelburg, Dr Ir J. van Schuylenborgh,
Ir P. L. Arens, Ir A. Janse, Drs A. H. Bloksma and
Tan Hong Tong.

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.

Research worker: Ir J. M. Wybenga.

Chief analyst: J. Ch. v. Wesemael.

Laboratorium voor Regionale Bodemkunde, Mineralogie en Geologie – *Laboratory of Regional Pedology, Geology and Mineralogy* (Director: Prof. Dr Ir C. H. Edelman), Duivendaalse laan 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 C. Kruit.

Practical courses in pedology and in research in soil science: Ir K. J. Hoeksema and

Stichting voor Bodemkartering – *Soil Survey Institute* (Director: Prof. Dr C. H. Edelman, professor of geology and pedology), Bovenweg 7, Bennekom. Telephone 247 (K 8379). P.O.-Box: Wageningen no 37.

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

The activities of the Institute have chiefly a twofold purpose:

- 1) Drawing up pedological maps of the areas where pedological data are required for making agricultural, hydrographical and urban alterations, etc.
- 2) Drawing up a pedological map of the whole country and instituting scientific inquiries.

Several reports and bulletins have already been published concerning pedological maps and maps

classifying areas, most of which 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. Buringh, Ir D. van Diepen, Ir H. Egberts, Ir J. C. F. M. Haans, Dr Ir W. J. van Liere, Ir J. van der Linde, Jhr Ir J. E. M. van Nispen tot Pannerden, Ir L. J. Pons, Ir H. C. de Roo, Ir R. P. H. P. van der Schans, Ir J. Schelling, Ir L. A. H. de Smet, Dr Ir J. S. Veenenbos.

Geologist: Dr R. D. Crommelin.

Geographer: Miss Dr A. W. 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.

Weg- en Waterbouwkunde – *Division of Road Construction and Water Engineering* (Director: Prof. Ir W. F. Eijssvoegel), Herenstraat 18, Wageningen. Telephone 2135.

Undergraduate courses in Hydraulics, graduate courses in Irrigation, Road Construction and Water Engineering. Special courses are also given in Statics and Hydrology.

Engineering problems encountered in tropical and subtropical countries are emphasized.

In 1951 the hydraulic laboratory, the equipment of which was destroyed during the war, will be reconstructed. A flume and a pipeline system 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.

Staff:

Director: Prof. Ir W. F. Eijssvoegel.

Assistant: J. H. van Mechelen.

Laboratorium voor Landmeten en Waterpassen – *Laboratory of Surveying and Leveling* (Director: Prof. A. Kruidhof), Rijksstraatweg 53, Wageningen. Telephone 2934.

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

Research is only possible in a limited way because the laboratory has been damaged by the war. A new laboratory is being constructed next to the Laboratory of Microbiology.

Double-image tacheometry is a subject of research.

Contact is maintained with the Topographical Service of the Netherlands in order to make a map on the scale 1 : 10000 of our country by means of photogrammetry. This map will be of great importance to agriculture.

Afdeling Cultuurtechniek – *Division of Drainage and Reclaiming of Lands* (Director: Prof. Ir F. Hellinga), Duivendaalse laan 7, Wageningen. Telephone 2416.

The Division of Drainage and Reclaiming of Lands 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 runoff of polders, the hydrology of peat-land and the re-allotment (Assistent 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 Landbouwtechnieken Rationalisatie -- *Institute of Agricultural Engineering and Rationalization* (Director: Ir H. H. Postuma), Nieuwe weg 30, Wageningen. Telephone 2147.

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

The Institute covers the whole field of agricultural machinery and tractors. It studies mechanization of agriculture to further 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 in Wageningen is member of the board.

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

Staff:

Director: Ir H. H. Postuma.

Technical matters: Ir P. M. van Bommel.

Research station: Ir W. P. M. Corstiaensen.

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

Labour management: Ir A. Moens.

Research department, forage harvesting: Ir L. H. Huisman.

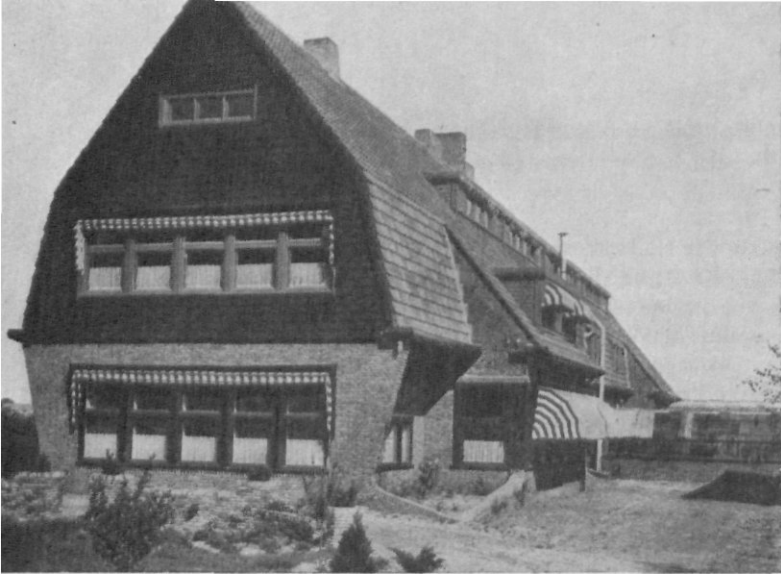
Foreign affairs, documentation, imports, export, production, grain harvesting machinery: Ir H. M. Elema.

Demonstrations: Ir J. C. Glerum.

Organization of machinery courses, tractors, waggons, tillage machinery: Ir J. Minderhoud.

Potato machinery, spraying equipment: Ir J. Crucq.

Beet machinery, seeding equipment: E. J. A. Hoogland.



*Laboratory of Bulb
Research at Lisse*

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

Though the director occasionally gives lectures at
Wageningen, the main task of this laboratory consists
in studying problems connected with the growing and
the export of flower bulbs. Not only the control of
parasitic and physiological diseases is studied but much

attention is also 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 had 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-micros-
cope.

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 to the
laboratory in connection with this work.

Director: Prof. Dr E. van Slogteren.

Botanical Research: Dr J. J. Beyer.

Mycology: Drs A. F. G. Slootweg.

Virus diseases: Miss Dr M. P. de Bruyn Ouboter and
Ir D. H. M. van Slogteren.

Assistants Serology: Miss M. C. Cremer and Miss B.
Th. C. Doelman.

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 life history of certain gall mites on raspberries causing symptoms similar to virus infection. 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 Dr Ir J. B. M. van Dinther.

Entomological research: Dr Ir J. B. M. van Dinther.

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

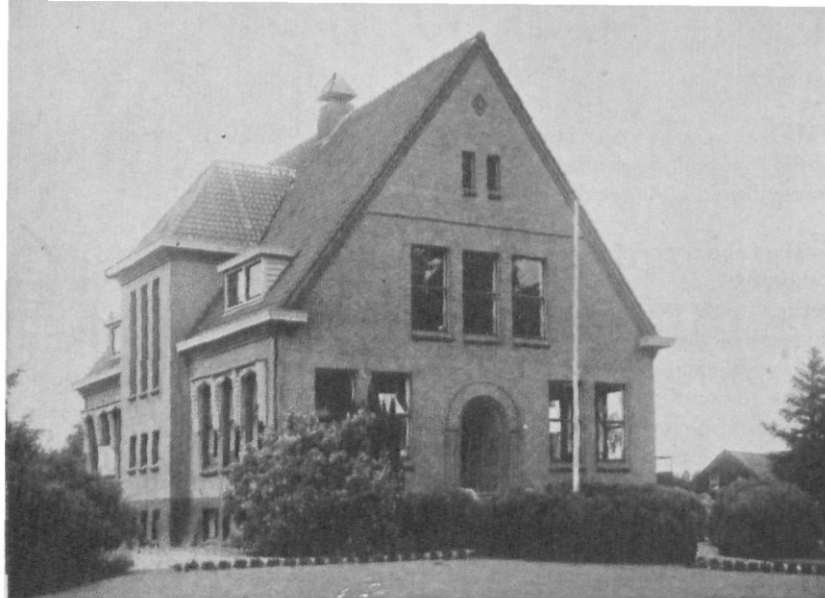
The Laboratory of Phytopathology (previously called Laboratory of Mycology and Potato Research), together with the two mentioned laboratories, is a division of the Institute of Phytopathology and Entomology belonging to the Agricultural University.

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

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 which are of vital importance for seed certification.

The organization of the Staff is as follows:



*Laboratory of
Phytopathology*

Instruction to students: Prof. Dr A. J. P. Oort and
Miss Dr L. C. P. Kerling.
Diseases of cereals and flax: Prof. Dr A. J. P. Oort and
Ir J. Hiddema.
Virus diseases of potatoes: Ir A. Rozendaal.
Diseases of peas: Miss Dr L. C. P. Kerling.

Chemotherapy: Dr M. H. van Raalte and Miss Dr J.
Oortwijn Botjes.
Phytophthora of potato: Ir J. Hiddema.
Breeding for resistance to apple scab: Ir G. P. Ter-
mohlen.
Soil borne diseases:
Biological control of the potato eelworm:

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 and although it is not connected with the Agricultural University both the main building, the greenhouses and part of the experiment fields are situated on the University grounds of the Laboratory of Phytopathology. There is, in fact, a close cooperation between the two laboratories.

Whereas the Laboratory of Phytopathology and the Entomological Laboratory of the Agricultural University are, generally speaking, carrying out more fundamental work and the Phytopathological Service has to concentrate on advisory service research, the new Institute aims primarily at the efficient and economic control of pests and diseases of our major crops, in order to reduce the considerable losses due to noxious



*Institute for
Phytopathological
Research*

organisms, by developing preventive and sometimes curative measures.

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

Work on the following subjects is carried out:

a. at Wageningen:

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

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 aphids: Dr H. J. de Fluiter.

Virus and bacterial diseases of stone fruits: Miss Dra J. M. Krijthe.

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 J. Walraven.

Virus diseases of beans and tobacco: Ir J. P. H. v. d. Want.

Virus diseases of turnips and lupins: Ir. A. Beemster.
Dry rot and water-rot of potatoes: Dr J. C. Mooi.

Diseases caused by nematodes, especially the non-cyst forming groups: Dr Ir J. W. Seinhorst.

Powdery scab of potatoes: Ir A. P. Kole.

Fungus and bacterial diseases of leguminous crops: Ir R. E. Labruyère.

b. elsewhere:

Possibilities of low-volume spraying: Dr J. J. Fransen, Velperweg 55, Arnhem.

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 D. Noordam, Experimental Station of Floriculture in the Netherlands, Aalsmeer.

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

Nutritional diseases and virus diseases of fruit trees: Dr D. Mulder, Fruit Research Station: Zeelands Proeftuin, Wilhelminadorp.

Gall midges in fruit and vegetable crops: Dr S. Leefmans, Laboratory of Entomology of the I.P.O., Mauritskade 61, Amsterdam.

Leafrollers of fruit trees: Drs D. J. de Jong, Laboratory of Entomology of the I.P.O., Mauritskade 61, Amsterdam.

Control of pea insects: Dr Ir C. J. H. Franssen, Laboratory of Entomology of the I.P.O., Mauritskade 61, Amsterdam.

Codling-moth control, fruit sawflies: Dr H. H. Evenhuis, Fruit Research Station: Zeelands Proeftuin, Wilhelminadorp.

Spider mites on greenhouse flowers: Ir G. S. van Marle, Experimental Station of Floriculture in the Netherlands, Aalsmeer.

Black leaf speck of cabbage: Ir H. A. van Hoof, Broek op Langendijk (Veilinggebouw).

Carrot fly control: Drs L. E. van 't Sant, Experimental Garden of the fen areas of North and South Holland and Utrecht, Sloten (near Amsterdam).

Fusarium wilts of peas: Miss Dra J. C. Schreuder, Agricultural Experiment Station and Institute for Soil Research T.N.O., Groningen.

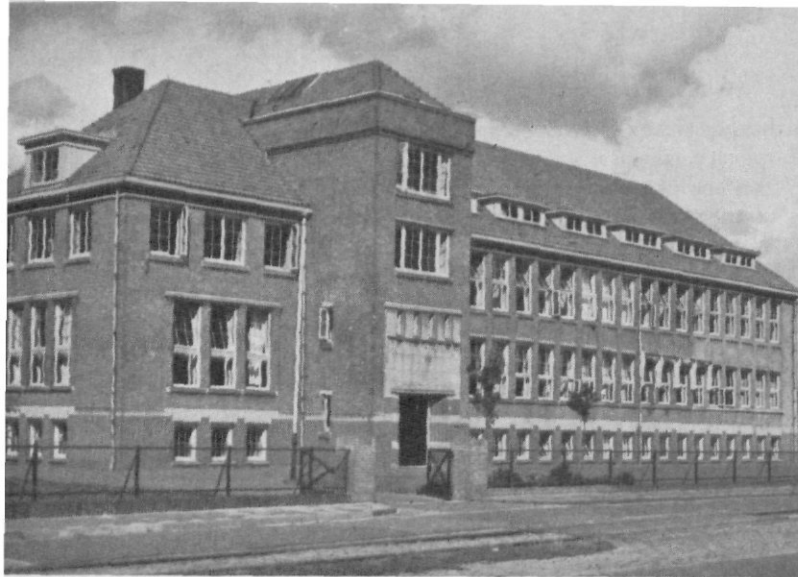
Red spider investigations on fruit trees: Prof. Dr D. J. Kuenen (guest worker), Zoological Laboratory, Kaiserstraat 63, Leiden.

The physiology of the colorado beetle: Dr J. de Wilde (guest worker), Physiological Laboratory, Rapen-

burgerstraat 136, Amsterdam.

Raspberry gall mite investigations: Dr Ir J. B. M. van Dinther (guest worker), Entomological Laboratory of the Agricultural University, Rijksstraatweg 37, Wageningen.

Aphidological Adviser: Mr D. Hille Ris Lambers (entomologist T.N.O.), Dikkenbergweg 14, Bennekom.



*Phytopathological
Service*

Plantenziektenkundige Dienst – *Phytopathological Service* (Director: Dr C. J. Briejèr), Oude Bennekomseweg 9, Wageningen. Telephone 2741.

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As indicated by the name the Phytopathological Service first of all aims at serving the public. 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 the health condition of crops.

The work may be outlined as follows:

- 1) Inspecting the health condition of bulbs and flowers, of export potatoes, of woody and herbaceous plants, of seeds, of vegetables and of 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 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.
- 12) Multiplication of natural enemies of destructive animals.

The formation of the Staff is:

Director: Dr C. J. Bricjèr, Assistant Director: Dr Ir H. N. Kluyver.

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

General Plant Pathology: Dr Ir J. A. A. M. H. Goossens, Ir H. van Lookeren Campagne, Miss Dr A. Jaarsveld.

Inspection: J. Zwartendijk.

Plant Protective Chemistry: Dr L. Westenberg, Dr A. F. H. Besemer, Drs F. E. Loosjes, Dr K. Hart-suyker.

Agriculture: Ir H. A. Ormel, Ir H. M. Flik, Dr Ir M. Oostenbrink, Ir H. J. de Bruin, Ir J. A. J. Veenen-bos.

Horticulture: Ir P. H. van de Pol, Ir L. P. Flipse, Ir M. van der Vliet.

Zoology: Ir A. J. Ophof, Dr E. van Koersveld.

Laboratorium voor Landbouwplantenteelt –
Laboratory of Field Crop Husbandry (Director: Prof. Ir W. J. Dewez), Herenstraat 18, Wageningen. Tele-
phone 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 and varieties of many field crops are grown for demonstration purposes.

In addition the staff members 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 forage crops and to crops adapted to dry soils, which raises 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 G. J. Vervelde.
Ir F. J. H. van Hiele.

Algemene Landbouwkunde – *General Agronomy*
(Prof. Ir W. J. Dewez), Herenstraat 18, 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 Plant Breeding* (Director: Prof. Dr Ir J. C. Dorst), Nude 66, Wageningen. Telephone 2942.

The Institute of 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 (direct aid through furnishing genitors and populations. 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) Laying-out of trial fields on the grounds of the Institute.
- 8) Creating and maintaining collections of genitors.
- 9) Reception of excursions, specially of those interested in breeding work or choice of varieties.
- 10) Organizing plant breeders' meetings and field days.
- 11) Propagation of knowledge by means of the press.
- 12) Supplying with literature and advising on literature. Keeping up of the extensive card catalogue of the library.
- 13) 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 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.



Institute of Plant Breeding

Cytology: Dr G. Bremer.

Plant Physiology:, Mrs Dr
D. E. Bremer-Reinders.

Research on disease resistance in potatoes: Dr H. J.
Toxopeus.

Selection: Sj. Bekius, Joh. Dros.

Library: H. Jansen; L. A. van Melle, M. S.

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

The Foundation for 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 no or little attention is paid by private breeders.

The Foundation acts in close cooperation with the Institute of 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 Plant Breeding of the Agricultural University is at the same time director of the Foundation for Plant Breeding.

Staff:

Director: Prof. Dr Ir J. C. Dorst; Secr.: Ir G. Veenstra.

Improvement of:

Potatoes: Ir G. A. Thijn, Ir H. T. Wiersema and Ir C. A. Huijsman.

Grasses and Clovers: Dr F. Wit.

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

Fodder beet: Ir D. Kloen.

Cereals: Ir G. Dantuma.

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

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

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, 2803 and 2802 (Lab.).

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 as to their distinctive characters. On behalf of the Government Committee for the Compilation of the List of Varieties of Field Crops experimental work is done 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 portioned out to 4 divisions.

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, J. R. Wijbrans.

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. Wassenaar.

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 are concerned. Head of Division: Ir W. Scheijgrond; assistant: H. Vos.

Intimately connected 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, of which commission Ir J. K. Groenewolt is the secretary. This Commission studies varieties of green fodder plants with the purpose to rationalize the varietal range.

IV. Division for the mathematical analysis of data furnished by field trials. Head of Division: Dr Ir G. Hamming.

This division draws conclusions from figures supplied by the comparative study of varieties.



*Experimental Farm Government Institute
for Research on Varieties of Field Crops*

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 experiments 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.

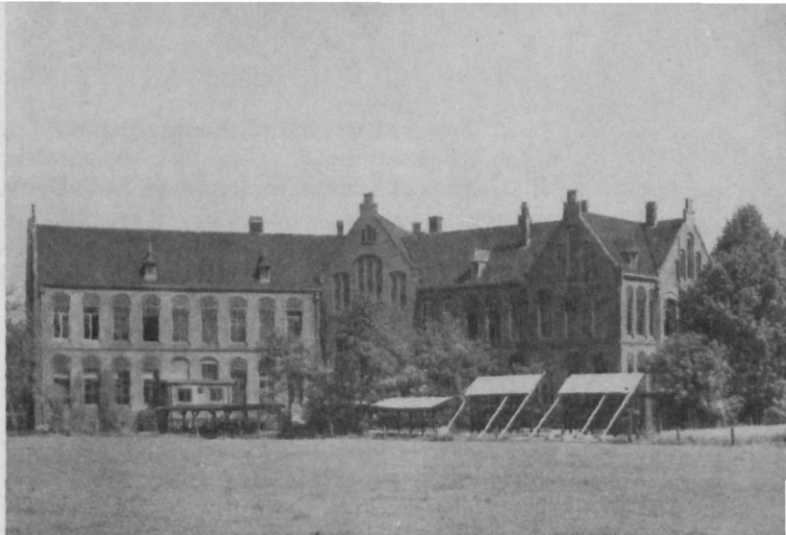
- 6) Research on winter hardiness of cereals (with the aid of a refrigerator).
- 7) Research on the physiological factors determining flowering and yield of agricultural plants.
- 8) Research on local productivity levels.
- 9) Research on drying technique in a special laboratory.
- 10) Lay-out of experimental 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, evaluation and soil profile research: Ir Th. A. de Boer.
 3. Physiological research: Drs W. D. Margadant.
- b. Zoological research: Dr Ir J. Doeksen and Dr J. Wilcke.
- c. Establishment of grassland and production of grass seed: Ir A. Sonneveld and Ir G. C. Ennik.



- d. Hydrology: Drs G. F. Makkink.
- e. Improvement of grassland:
 1. Drying up peat soils: Ir D. v. d. Woerdt.
 2. Basin soils in river clay: Ir J. W. Minderhoud.
- f. Productivity level and utilization of grassland:
Ir M. L. 't Hart and Ir J. G. P. Dirven.
- g. Ensilage: Ir D. Kappelle.
- h. Grazing experiments, hay making and grass drying: Ir S. Bosch.

*Central Institute
of Agricultural
Research*

- i.* 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 and productivity level of arable crops: Dr W. H. van Dobben and Ir M. M. de Lint.
- b.* Legumes: Ir P. Riepma Wzn., attached to the Association for the Study of Leguminous Crops.
- c.* Maize and new crops: Ir W. R. Becker.
- d.* Potatoes and topinambou (*Helianthus tuberosus*): Ir A. J. Reestman.
- e.* Fiber crops: Ir J. C. Friederich, attached to the Dutch Flax Institute.
- f.* Fine seeds: P. Gaastra.
- g.* Storage of potatoes and root crops: Dr Ir W. H. de Jong and B. G. Oude Ophuis.
1. 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.
2. Potato rot: Dr J. C. Mooi, stationed at the Institute for Phytopathological Research.
- h.* Weed control: Ir H. J. Eggink and Ir P. Riepma Kzn.

i. Human nutrition: Miss A. Veenbaas.

III. Chemical Laboratory. Chief: Dr W. B. Deys; chemist: Miss Ir C. L. Harberts.

IV. Botanical Laboratory: Dr H. L. van de Sande Bakhuyzen and Drs H. G. Wittenrood (physiological factors determining flowering, seed setting and yield; winter hardiness of cereals). This division is lodged in the Laboratory of General Botany of the Agricultural University.

V. Drying Technique Laboratory: Prof. Ir J. J. I. Sprenger.

Administration: I. F. Flipse.

Trial-field service: S. Sevenster.

Interprovincial trial fields: 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. Lambers) is lodged in this building. He is also the technical officer of the Association for the Study of Leguminous Crops.

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 samples of flax straw performed in a retting laboratory.
- 4) Instruction to young processors, flax workers and agricultural labourers.
- 5) Supervision of the instruction in special flax-schools.
- 6) Advice in flax growing and flax processing.

Staff:

Director: Ir J. I. C. Butler.

Research worker: Ir J. C. Friederich.

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.” (Director:
Ir J. Siebenga), Bosrandweg 5, Wageningen. Tele-
phone 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 mate-
rial. 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.



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

- 5) Encouraging the improvement of field crops and their growing 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) Furthering good ethics in 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 cereals, legumes and other seeds: A. J. Constandse.
b) Division for potatoes: Ir J. H. Brust.
c) Division for forage crops: A. C. Buys.
d) After harvest sample and bin inspection: F. de Feyter.

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

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

Documentation: Ir C. J. van Bijlert.

Financial Administration: N. Sterenberg.

Administration: J. Vlastuin.

Rijks Proefstation voor Zaadcontrôle – *Government Seed Testing Station* (Director: Dr Ir A. F. Schoorel), Binnenhaven 1, Wageningen. Telephone 2731.

The work of the Government Seed Testing Station concerns mainly:

- 1) Testing and judging 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) Control on the observance of the regulations pertaining to seeds.

The control is made with the aid of the Government Inspection Service. Contravening merchants are warned or have a warrant issued against them. This Government Inspection Service is also in charge of the official sealing of the bags and seed containers, if desired.

- 3) Research work necessary and useful to perform the task assigned to 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.

*Government Seed
Testing Station*

- 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 annually established standards (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).

The organization of the Staff is:

Director: Dr Ir A. F. Schoorel.

Division for Purity Investigation: Ir K. Leendertz, Chief; Miss J. A. Nieuwland.

Division for Germination Tests: Ir C. Verhey.

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

The former director, Dr W. J. Franck retired on April 1st 1951.

Centraal Instituut voor Voedingsonderzoek T.N.O., Afdeling Graan-, Meel- en Broodonderzoek – *Central Institute for Nutrition Research T.N.O., Cereals Department* (Director: Drs H. M. R. Hintzer), Grindweg 109A, Wageningen. Telephone 2680.

The Central Institute for Nutrition Research belongs to the National Research Council for Nutrition T.N.O. The Central Institute has a special division for investigations on cereal chemistry and for research on milling and baking problems.

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 proteins in connection with the baking value.

Systematic research on the deterioration of the grain caused by artificial drying and fundamental biochemical research in connection with this has been done.

In the field of milling there are many important problems, such as the influence of milling technique on the quality of flour, the factors determining the baking value, the action of improvers and the nutritive value of flour.

Bakery problems too are receiving attention; many problems concerning the manufacturing and quality of baking products, e.g. bread, rye bread, rusks, biscuits, cake are investigated. Fundamental studies on the nature of the staling of bread, on flavour and on electronic baking are worthy of special mention. A new division for research on baking engineering is in development.

Staff:

Director, milling and baking properties of rye varieties:

Drs H. M. R. Hintzer.

Milling and biochemical department: Dr G. L. Bertram.

Baking department, documentation: Dr S. Broekhuizen.

Fundamental research, staling of bread: Ir D. H. Greup.

Analytical department, research on baking properties of wheat varieties: Dr G. Jongh.

Fundamental research, special flours, statistics: Ir H. de Miranda.

Baking department, technical problems: C. J. Wensveen.



Central Institute for Nutrition Research T.N.O., Cereals Department

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 has been founded in 1909, with government subsidy, by



Experiment Station of Milling and Baking

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.

The laboratory inspects the raw materials used in milling and baking and also the products of these industries. 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.

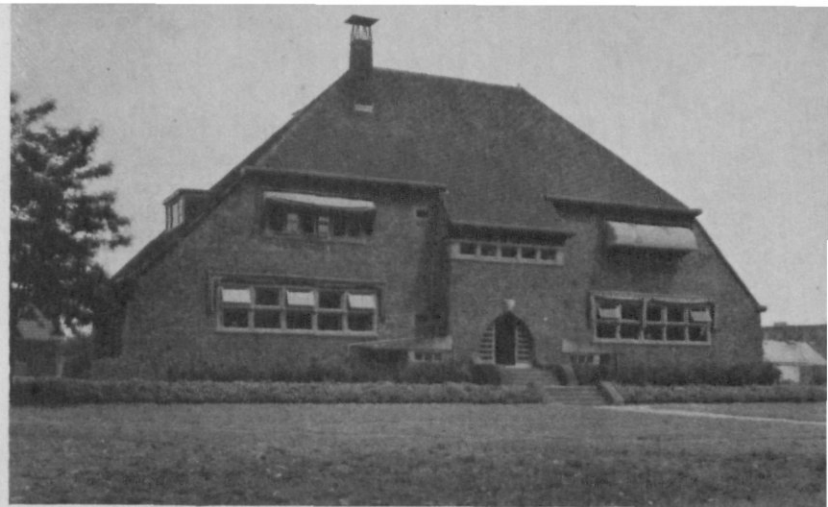
Staff:

Director: Dr J. van der Lee.

Vice-Director: Drs E. Dijkstra.

Miss Dra H. de Vries.

Drs J. Schoute.



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

The Horticultural Laboratory belongs to the Agricultural 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 heating and illumination, vegetative propagation including rootstock studies; literature research.

The principle of working is to restrict 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 tomatoes, peas, Brussels sprouts, apples, pears, Cyclamen, Rhododendron.

The staff consists of:

Head: Prof. Dr Ir S. J. Wellensiek.

Plant physiologist: Dr Christine J. Gorter.

Cytologist: Dr Iz. de Haan.

Horticulturists: Ir H. F. Waterschoot, Dr Ir J. Doorenbos, Ir P. M. Felijs, Ir K. Verkerk, Ir T. Visser (T.N.O.)

Co-assistants: R. A. H. Legro, H. C. M. de Stigter.

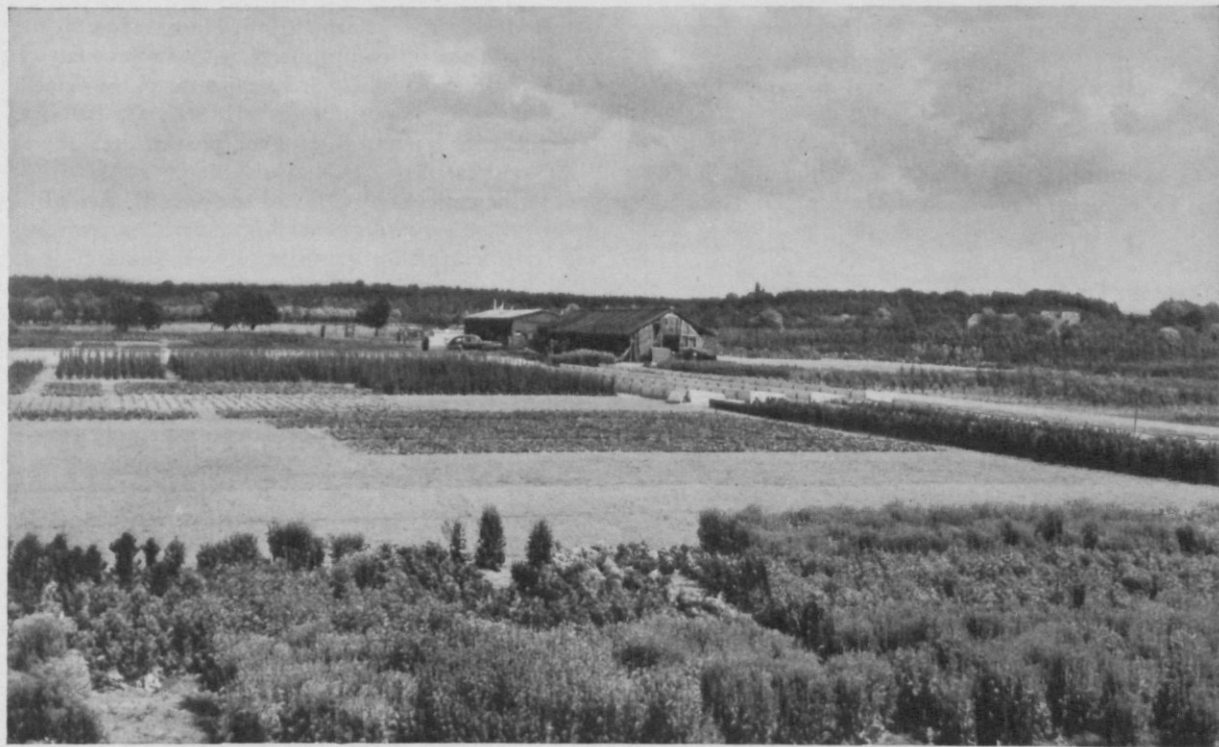
Chief of experimental gardens: R. Sabarte Belacortu.

Instituut voor de Veredeling van Tuinbouwgewassen – *Institute of Horticultural Plant Breeding* (Director: Dr O. Banga), Herenstraat 25, Wageningen. Telephone 2805, Experimental Garden 312 (K 8379).

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. To further this end, the following activities are engaged in:

- 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 breed-



Institute of Horticultural Plant Breeding

ing, 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, Experimental Garden „De Goor”.

Staff:

Director: Dr O. Banga.

- I. Division of Vegetables and Herbs. Head: Ir J. Sneepe.

Leafy vegetables and cabbage: Ir J. Sneepe.

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

Herbs: Ir G. Elzenga.

- II. Division of Pomology. Temp. head: Dr O. Banga.
Foreign plant introduction, cherry, walnut: Ir C. J. Gerritsen.

Small fruits: Miss Ir Hester G. Kronenberg.

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

Apple, pear, plum: Ir P. de Sonnaville.

- 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.

Rootstocks, veg. prop.: Ir J. Floor.

Physiology of seed production: Ir L. Smeets.

Phytochemistry: Dr S. P. Dijkstra.

Chemical composition of herbs: A. C. Bellaart, chem. drs. and R. Hofstra, pharm. drs.

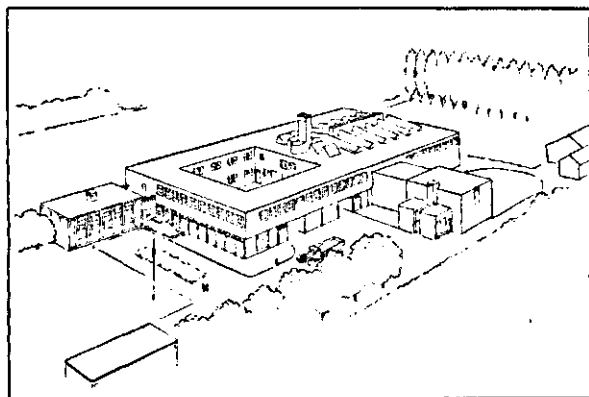
Phytopathology: Ir N. Hubbeling.

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 3, Wageningen. Tele-
phone 2281.

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), Haagsteeg 3, Wageningen.
Telephone 2281.

Vice-Director: Ir T. van Hiele (Horticultural Advisory
Officer for Storage), Binnenhaven 4A, Wageningen.
Telephone 2151.

Storage department:

Fundamental physiological research: Drs J. E. Boeke, Binnenhaven 4A, Wageningen. Telephone 2151.

Incidental short time problems: Miss Ir J. N. Heringa, Binnenhaven 4A, Wageningen. Telephone 2151.

Research on packing: A. Kegel (senior assistant), Binnenhaven 4A, Wageningen. Telephone 2151.

Advice: Ir W. S. Duvekot, Binnenhaven 4A, Wageningen. Telephone 2151.

Constructional adviser:

Advising on packing stations and cold-storage buildings
M. Paardekooper (senior assistant), Achterweg 32, Kloetinge. Telephone Goes 2994.

Processing Department:

Research on pectins and enzymes: Ir J. J. Doesburg, Junusstraat 20A, Wageningen. Telephone 2480.

Research on freezing and canning: Ir J. A. Glerum and J. A. S. Moerman (senior assistant), Binnenhaven 4A, Wageningen. Telephone 2151.

Preparing horticultural produce for home use: Miss S. Nauta, Haagsteeg 3, Wageningen. Telephone 2281.

Chemical and bacteriological research: Ir E. Olthof, Hoogstraat 11, Wageningen. Telephone 2059.

Research and inspection of jams: Ir L. Gersons, Haagsteeg 3, Wageningen. Telephone 2281.

Research on drying horticultural produce: Ir J. C. Mettievier Meijer, Plantsoen 4A, Wageningen. Telephone 2480.

Research on candying horticultural produce, Ir S. B. Thung, Plantsoen 4A, Wageningen. Telephone 2480

Juices and wines: Ir E. Olthof and H. A. A. v. d. Lek (senior assistant), Haagsteeg 3, Wageningen. Telephone 2281.

Stichting Proeftuin voor Tabak – *Experiment Station of Domestic Tobaccos* (Director: Ir R. van der Ven), Rijksweg 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: Ch. Vermeulen.

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” has been founded in 1935 by the Albatros Superphosphate Works Ltd and was placed under the direction of Prof. Ir A. M. Sprenger.

The principle aim is to make experiments with fruit trees in view of ascertaining which are the best fertilizers and what quantities and proportions will promote optimal development and yield.

To obtain mathematically justifiable data the Fisher method is used.

Besides manuring trials all kinds of observations are made relative to fruit growing, e.g. disease control, pruning, plantsystems of fruit trees. New varieties of fruit trees are also 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, Wageningen. 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.

Research, testing and instruction concerning technical aids and appliances useful to horticulture, are pursued by the Institute. In addition to this, advice is given to the growers as well as to trade and industry with reference to:

- 1) Building of glasshouses, working-sheds, auction halls, mushroom houses, bulb-sheds.
- 2) Heating of hot-houses, air-conditioning of bulb sheds, night frost prevention, steam sterilization of soils.
- 3) Application of electricity to heating and lighting, soil sterilization.
- 4) Construction and use of horticultural implements (tractors, toolbars, disk harrows, sowing, sprinkling, spraying and harvesting machines, graders, transportation appliances).

Investigations are also carried out on glasshouse construction and heating, air-conditioning (e.g. application of CO₂), gravel culture, electric heating and lighting, night frost prevention, cultivating, mowing, sprinkling, spraying machinery, orchard work platforms. Special attention is paid to the economic use of all apparatus.

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

Horticultural Research: Ir J. A. Stender.

Technical Research: Ir N. Feis.

Physicist: Drs A. Businger.

Economist: A. J. Wichers.

Construction of glasshouses: W. van Keulen.

Heating of hot-houses: P. A. Spoelstra.

Application of electricity: A. van Drenth.

Technical matters: C. J. van Wijk.

Instruction: Ir H. J. M. Krijnen.

Homologation: P. E. Dinkla.

Horticulture: J. A. Veerman.

Tuin- en Landschapsarchitectuur - *Division of Landscape Architecture* (Director: Prof. Dr Ir J. T. P. Bijhouwer), Diedenweg 18, Wageningen. Telephone 2463.

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). 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 are teaching 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.

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.

Research is carried out among other things on:

hybridization of poplars;
exotic forest trees, provenances and climatological races (especially of *Pseudotsuga*, *Larix* and *Quercus borealis maxima*);
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;

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

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

The institute has been founded in 1947 by the Netherlands 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 pathological problems.

The Research Station is established on the premises of the Estate „De Dorschkamp” which has been purchased by the Government for the special purpose.

Staff:

Director: Dr Ir H. van Vloten.

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



Forest Research Station

Laboratorium voor Tropische Landbouw-plantenteelt – *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 experimental plots there are three hothouses containing demonstration material of perennial crops, and affording facilities for experiments with annual crops.

The activities consist in:

- 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, also in cooperation with the activities of the agricultural experiment stations in Indonesia and elsewhere.

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.



Laboratory of Tropical Agriculture



*Laboratory of
Animal Physiology*

Laboratorium voor Physiologie der Dieren –
Laboratory of Animal Physiology (Director; Prof. Dr E.
Brouwer), Duivendaalse laan 1, Wageningen. Tele-
phone 2923.

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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
done, mainly on the nutrition of animals (digestion,
metabolism, relations between the food and the milk,
nutritive value of feeding stuffs, trace elements, vita-
mins, etc.) as well as on the milk secretion and endo-
crinology. A respiration chamber for large farm ani-
mals is being built.

This laboratory is cooperating with other divisions
of the Agricultural University, with agricultural
experiment stations, with T.N.O. (Netherlands Cen-
tral Organization for Applied Scientific Research),
Z.W.O. (Organization for Fundamental 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. the microbiological activities in the
rumen of ruminants is studied.

Director: Prof. Dr E. Brouwer.

Histology: Drs G. Wiertz.

Vitamins: Ir J. Weits.

Chemistry: Ir P. Kooiman.

Research officer: Ir W. H. Beyer.

Laboratorium voor Veeteelt – *Laboratory of Animal Husbandry* (Director: Prof. Ir W. de Jong), Dui-vendaalse laan 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 and on the paleontology 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 Herdbooks, and, for horses, in cooperation with two of these associations. With these Herdbooks a close contact is maintained, Professor de Jong being chairman of the Netherlands Cattle Herdbook Association.

The results of the 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 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.

With these organizations also a close contact is maintained. For instance Prof. de Jong is chairman of the above mentioned committee, as well as of the

*Laboratory of
Animal Husbandry*

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 and Ir G. G. Reitsma. (temp.)

Laboratorium voor Zuivelbereiding en Melk-
kunde – *Laboratory of Dairying* (Prof. Dr H. Mulder,
Prof. Ir S. Hartmans), Lawickse Allee 1A, Wagenin-
gen. Telephone 2563.

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

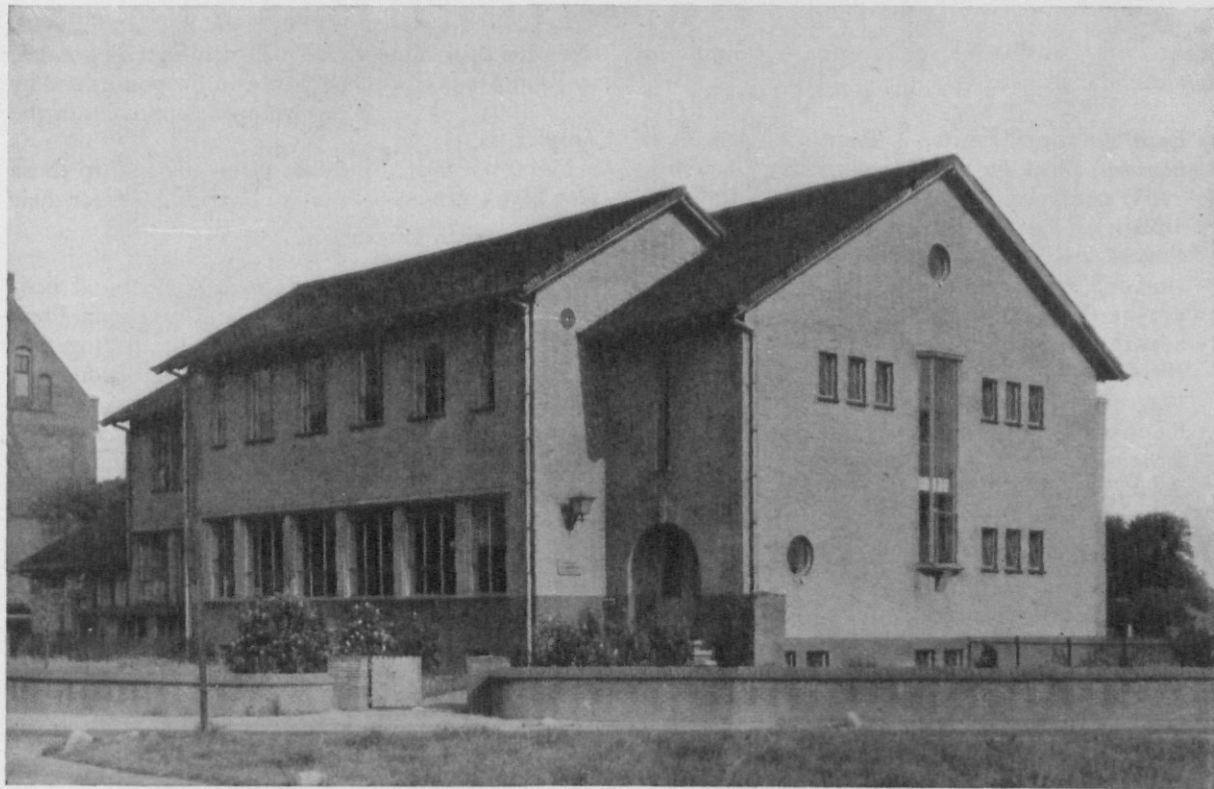
Regular contact with the dairy industry is maintained.

Instruction to students:

Prof. Dr H. Mulder, Dairy Science.

Prof. Ir S. Hartmans, Dairy Technology.

Research: Prof. Dr H. Mulder, Prof. Ir S. Hartmans,
Ir C. A. Koppejan (chemistry), Ir J. J. Stadhouders
(bacteriology) and (dairying).



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. Horring), 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.
- 4) Rechts- en Staatswetenschap - *Division of Jurisprudence and Political Science* (Prof. Mr C. H. F. Polak), Diedenweg 18, Wageningen. Telephone 2462.
- 5) Tropische Landhuishoudkunde en het Indonesisch Agrarisch Recht - *Division of Tropical Economics and Indonesian Agricultural Legislation* (.), Diedenweg 18, Wageningen. Telephone 2462.

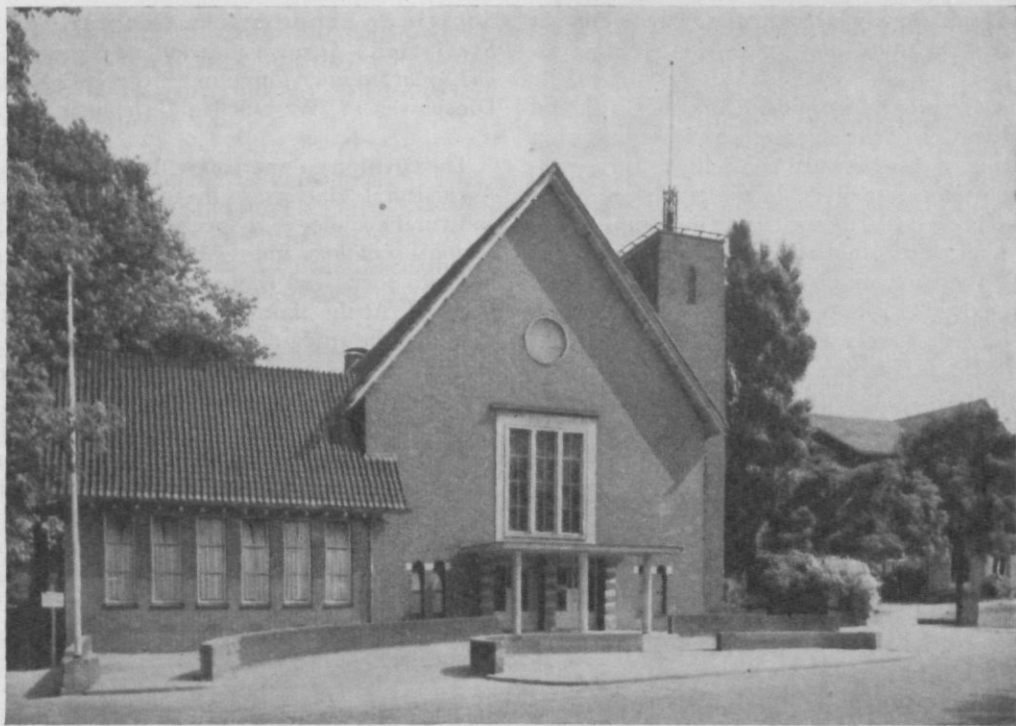
tinued by Prof. Minderhoud in Agricultural Economics, by Prof. Kools (see p. 64) in Forest Economics and by in Agricultural Economics of the Tropics.

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

Students that 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. Horring (whose main function is to direct the Landbouw-Economisch Instituut - Agricultural Economics Research Institute at The Hague).

Prof. Polak lectures in Agricultural Legislation, Legislative Provisions relative to Water Management and some aspects of Public Law to students majoring in the Economics or the Field Crop Technology of Dutch Agriculture.

The professors are represented in several commit-



Auditorium

Photogr. George Flipse, (Arnhem)

tees and organizations which greatly furthers contact with the world at large.

As to the Division of Tropical Economics it should be noted that in the field of structure and organization big differences exists between agriculture in the tropics and the temperate zone. In the tropics the prevailing type is the small peasant farm on a subsistence basis, together with 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.

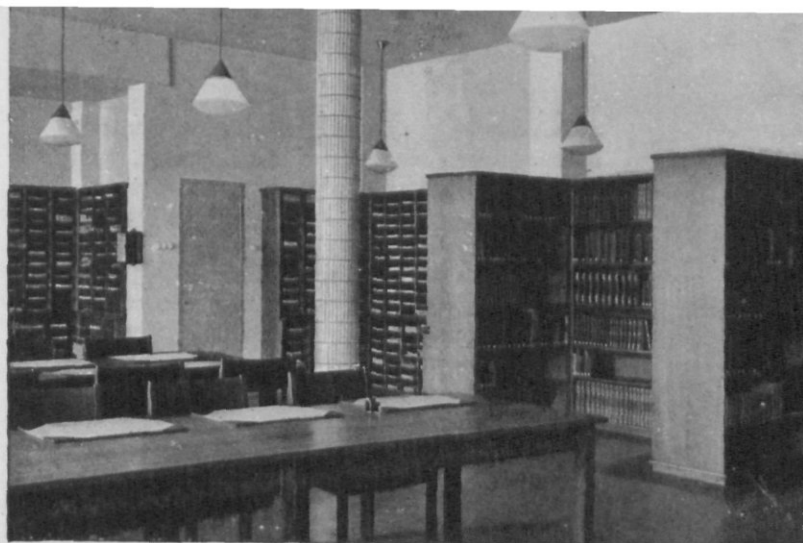
Land- en Volkenkunde en de Indonesische talen – *Division of Social Anthropology and the Indonesian Languages* (Dr F. H. van Naerssen), Diedenweg 18, Wageningen. Telephone 2463.

The instruction in social anthropology covers chiefly the social aspect of the rural communities of the so-called underdeveloped 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: Dra E. M. Daendels.



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

Reading room

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.

Assistants:, F. Koekebakker (detached by the Library of the Ministry of Agriculture).

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VIII. 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) and Hotel Hof van Gelderland (Nudestraat 17, Wageningen).

On the market-place is situated Café-Restaurant „De Tien Zilverlingen” (Markt 2, Wageningen), in the basement of which is an exhibition on the organization of plant breeding and crop inspection in the Netherlands.

Mr L. A. van Melle M.S. (translator at the Institute of Plant Breeding) took charge of the linguistic part of the work. The editing has been aided by a subsidy of the Director of Agriculture at The Hague.

Institute of Plant Breeding
Wageningen

H. de Haan

IX. EXPLANATION OF OPPOSITE PLAN

AGRICULTURAL UNIVERSITY

- A Main Building, Administration, Field Crop Husbandry, 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 Microbiology.
- K Genetics, Surveying and Leveling.
- L General and Agricultural Economics, Tropical Economics, Social and Economic Geography and Social Statistics, Social Anthropology of Indonesia and the Indonesian Languages, Landscape Architecture, Architecture and City Planning.
- M Animal Physiology.
- N Physics and Meteorology, Mineralogy and Geology.
- O Animal Husbandry.
- P Agricultural Machinery and Rural Buildings.
- Q Temporary Building.
- R Dairying.
- S Horticulture.

T Phytopathology.

U 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.
4. Laboratory of Research in Agricultural Chemistry.
5. Government Institute for Research on Varieties of Field Crops.
6. Institute of Horticultural Plant Breeding.
7. Institute of Horticultural Engineering.
8. Central Experiment Field for Manuring of Fruit Trees.
9. Central Institute of Agricultural Research.
10. Government Seed Testing Station.
11. Experiment Station of Milling and Baking.
12. Institute of Phytopathological Research.
13. Institute for Research on Storage and Processing of Horticultural Produce.
14. Netherlands Ship Model Basin.
15. Central Institute of Nutrition Research, Cereals Division.
16. Phytopathological Service.

PLAN OF WAGENINGEN WITH INDICATION OF LABORATORIES AND INSTITUTES





Position of Wageningen with respect to the most important Dutch cities