

## CURRICULUM VITAE

### L. DE RUIJSSCHER

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Name : Ruijsscher de, Leo

Date of Birth : 27th August 1947

Nationality : Dutch

Education : Polytechnic School  
Rotterdam - 1969,  
Electrical/Mechanical  
Engineering

Entrepreneurial Master class  
with Erasmus University  
Rotterdam – 2004

Commissioner' Master class at Nyenrode Business University  
Breukelen – 2006/2007

Title : R.i. ONRI (consulting  
engineer ONRI)

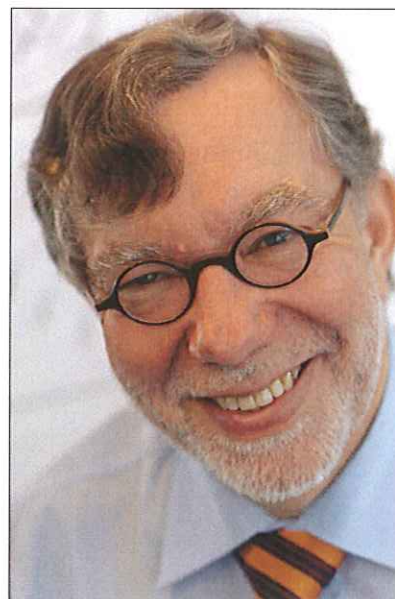
Languages : Dutch, English, German: fluently. French: comprehensive

Memberships : ONRI (Orde van Nederlandse Raadgevende Ingenieurs)  
Association of Netherlands Consulting Engineers

"Trend 21" (society pursuing the financial, economical and  
technical processes in the field of urban and industrial  
construction development)

"The Lighthouse Club" (society of senior executives of  
companies operating within the Dutch building trade. The  
purpose of this society is to serve the interests of the building  
trade without being connected to any political organisation,  
community of interests or ideologies).

"NVTG" De Nederlandse Vereniging voor Technisch facilitair  
management in de Gezondheidszorg (society of managers  
operating within the health sector or companies operating in  
the health sector aimed at the area of (technical) facility  
management).



- Membership/co-operation with "Swegon Air Academy", Swegon Air Academy is a platform for objective information and knowledge conveyance in the indoor climate and air handling fields.
- Registration : Consultant Code No. 014917  
Individual Consultants (DICON) Asian Development Bank  
Registration in the judicial databank (civil law sector) as legal expert in the field of mechanical and electrical engineering.
- Lectures : Lecture on "Applying domotica in practice" during the Domotica Congress at the "Jaarbeurs" Utrecht (October 2007)  
Lecture on technical installations in the project "IMAX" building for the Technical University Eindhoven, The Netherlands ("Projectencollege "IMAX" gebouw Rotterdam - TU Eindhoven) 1991.  
Lecture on "Domotica & Flexible Infrastructure" during the "Smart Homes" Congress at the "Evoluon" Eindhoven (March 2006).
- Seminars : Chairman for the Swegon Air Academy seminar: "Rotterdam 2007 City of Architecture - The Building As a System", held on May 2nd in the Erasmus University Rotterdam.
- Sideline activities : Visiting lecturer at the Faculty of Architecture of the Technical University Delft, branch of science: Building Technology.  
Building Technology aims to increase the potential of architectural engineers on a broad scale, and to fulfil demands from the architectural profession and industry for technically proficient graduates. Educating future architects in Building Technology is proving to be a major factor in enhancing the built environment.  
Senior expert for PUM (Netherlands Senior Experts); PUM has played an important role in the field of international development assistance for the past 28 years, sending senior experts to more than 80 countries in Africa, Asia, the Middle East, Latin America and Central and Eastern Europe. Upon request, PUM's experts offer their skills and experience to businesses and organisations in places where these are most needed.  
Temporary commissionership with Raicommerce Construction Jsc Sofia Bulgaria. A Company specialised in trenchless laying of water-, sewerage- and gas infrastructure works.

Advice to the council of management concerned the possibilities of participation within the European market. Furthermore the set-up of training- and business link programmes in January and May 2007 for a design and consulting department within the Netherlands.

Publications : "DOMOTICA, voor een optimale en betaalbare zorg" (article on the application of domotica in the healthcare sector), published 2005 in "Zorgspecial" magazine.

"Brandstofcel in Woning- en Utiliteitsbouw (article on the application of fuel cell (hydrogen) in Housing and Utility building), published in "Installatie Totaal" magazine.

"Een beter binnenklimaat voor ouderen in bestaande woonzorggebouwen" (article on improving the indoor climate for the elderly in existing homes and health care facilities), published november 2006 in "Zorgspecial" magazine.

Present position : Managing Director (as of 1990), Senior Consultant and Project manager with De Blaay-Van den Bogaard Raadgevende Ingenieurs B.V.

*SPECIAL  
INTERNATIONAL  
EXPERIENCE :*

Project management and design of electrical and mechanical installations for industry, marine facilities, aerodromes, office buildings and housing estates, power houses and pump stations

Co-ordination of multi-disciplinary projects abroad at the Kingdom of Saudi Arabia, Sultanate of Oman and the Republic of Nigeria, Libya, Turkey, India, Indonesia, Pakistan and Thailand.

Fact-finding, Evaluation and Review missions abroad.

*EXPERIENCE  
2007 - 1978*

: Senior consulting engineer with de Blaay - Van den Bogaard Raadgevende Ingenieurs B.V., directly responsible for the realisation of projects in a wide field both in The Netherlands and abroad.

Fact-finding mission for the development of the Rendani Airport in Manokwari, Irian Jaya, Barat – Indonesia by order of the NMCP (former PUM) Netherlands Management Co-operation Program, The Hague.

Preparation of a fact-finding report on the development of the Rendani Airport in Manokwari.

Advise to the Addis Ababa Water and Sewerage Authority, on the electrical installations, power distribution and power back up, for the Emergency Ground Water Development Project (AKAKI), Addis Ababa Ethiopia.

The project supplies potable water to the city of Addis Ababa and consists mainly of 11 numbers of deep-wells with a electrical load of 2 MVA, a water storage capacity of approximately 15000 m<sup>3</sup>, a pumping capacity of 18 pumps of 500kW each, utilities such as treatment facilities etc. a transformer capacity of 13.5 MVA and a generator standby capacity of 8.9 MVA.

Team leader for the Mid-Term Evaluation Mission in the framework of the "Rural Electrification in Punjab, phase II" project in Pakistan on behalf of the European Community. The project mainly comprises 513 villages, 1200 km High Tension lines, 2400 km of Low Tension Distribution, 60.000 house installations and training facilities.

Preparation of an investigation report on the power connection of Dutchtone GSM sites in The Netherlands by order of Dutchtone, The Hague.

Co-ordination, management and supervision of the feasibility studies presently carried out in the framework of the Energy Efficiency Support Project, Energy and Environmental Audit, phase II by order of the Asian Development Bank Manila. (Feasibility Studies in Cement, Paper, Glass and Ceramics)India.

Assessment of financial feasibility of Geothermal Project in Vilkauskis Lithuania in co-operation with NEI on behalf of Enraf Nonius B.V. Delft.

Basic, Preliminary and final design, contract-/construction management and project management for the technical installations in the MCC sales centres with workshops and offices on behalf of Micro Compact Car AG, Switzerland

Design and co-ordination of the mechanical and electrical installations for the computer storage and test facilities of Hitachi Data Systems with a floor space of 22.500 sq. mtr. at Neerijnen, the Netherlands on behalf of Kajima Europe B.V.

Design, supervision and project management of utility installations for the following branch offices in Europe, on behalf of Synoptics, Woerden, the Netherlands.

- \* Synoptics branch office, Les Ulis, Paris, France
- \* Synoptics branch office, Kungsgatan, Stockholm, Sweden
- \* Synoptics branch office, Saint Cloudgate, Maidenhead, United Kingdom.
- \* Bay Networks branch office, London, United Kingdom
- \* Bay Networks branch office, Johannesburg, South Africa
- \* Bay Networks branch office, Paris, France
- \* Bay Networks branch office, Vienna, Austria
- \* Xy-logics branch office, Munchen, Germany
- \* Bay Networks branch office, Watford, United Kingdom
- \* Bay Networks branch office, Oslo, Norway
- \* Xy-logics branch office, Milton Keynes, United Kingdom
- \* Bay Networks branch office, Moscow, Russia

Co-ordination of Conceptual and detailed design of the technical installations to be implemented in an underground bunker complex at Ouddorp - The Netherlands by order of the Royal Dutch Navy

Review on the design of the mechanical and electrical installations for the new Chancery building of the Royal Netherlands Embassy in Tokyo, Japan, including staff apartments and underground parking on behalf of the Dutch Ministry of Foreign Affairs in co-operation with F.C. de Weger International B.V., Rotterdam, The Netherlands and Abusaki, Architects and Consulting Engineers, Tokyo, Japan.

Co-ordination of Design and consultancy of mechanical and sanitary installations for a storage on the "Van Ghent kazerne", Rotterdam, The Netherlands

Co-ordination of Design, specification and tendering of a ship's elevator for the "Rotterdamse Droogdok Maatschappij B.V.", Rotterdam, The Netherlands.

Design and project management of the utility installations of a two tower, 16 stories apartment building "Flevogebouw", consisting of apartments, shops en carparking facilities with a floor surface of 20.000 sq.mtr. at Rotterdam, The Netherlands

Design and project management of the heating, ventilation, fire fighting, sanitary, sewage and electrical installations for the factory, laboratory, production- and storage facilities for AD Chemicals at Fijnaart, Heiningen, the Netherlands.

Design and co-ordination of the technical installations, equipment and lab-furniture for the expansion of existing laboratories for organic and chemical research for the committee of Grain Merchants, at Europoort Rotterdam, The Netherlands.

Design and co-ordination of the mechanical and electrical engineering for the Marine Slipway Es Sider Terminal - Libya on behalf of Interbeton, International division of H.B.G., Holland.

Preliminary design, detailed design and preparation of Tender documents for the controlled (Polder) Flood protection system for the second international airport at Bangkok, Thailand, consisting of self-supporting pump stations with a pumping capacity of 64.000 m<sup>3</sup> discharge water per hour, all in association with Thai Engineering Consultants Co. Ltd on behalf of A.A.T. Airports Authority of Thailand.

Feasibility study, design and overall co-ordination of the technical installations for the marine and shore facilities (Logistic Supply Base) at Sabratah Libya on behalf of AGIP (N.A.M.E.) Ltd, Libyan branch.

Design co-ordination of the electrical instrumentation and mechanical installations during the design and construction period of a 25.000 tdwt dry dock and ship repair yard - Lagos, Nigeria on behalf of Interbeton, International Division of H.B.G.

Design of the electrical installations and the co-ordination between the electrical installations, instrumentation and mechanical installations for the project proposal BI 8606 waste-water disposal, Abqaiq plants in co-operation with a consultancy for water technology, IWACO, on behalf of ARAMCO Overseas Company, The Hague.

Design, specification and supervision during the construction of electrical installations and instrumentation installations for two well protector platforms located at the North Sea including the interconnections with the production platform.

Design, material specifications and preparation of Tender Documents of the electrical installations, instrumentation and telemetry system for a potable water pumping station and purification plant for the city of Poura at the Republic of Upper Volta (Burkina Fasso), including a 6 km distribution pipeline from the river Noir to the village of Bolmakote.

Design of the electrical installations and co-ordination with and between the other installations for a factory in optical instruments at Kung-Ming in the Peoples Republic of China, in cooperation with Van Swaay International, Holland, nettenbouw Holland, on behalf of the Optical Industries the "Old Delft".

Co-ordination and supervision on behalf of Messrs. OGEM International, contracting between parties concerned in the realisation of the infrastructure for the High-Rise apartment buildings in Damman, Saudi Arabia.

Infrastructure of sewage treatment facilities and drinking water supply by deep wells.

Design and engineering of power distribution and lighting installations for:

- \* Sport city project, Tripoli, Libya
- \* G.H.C. office building, Tripoli, Libya
- \* Al Haditha borderpost, Iraq
- \* Pumping stations at Najaf-Kufa and Hamdania, Iraq.

1972 - 1978

Consulting engineer with the Netherlands Airport Consultants, The Hague (NACO)

Design of the complete electrical installations for two maintenance hangars with utility buildings for full maintenance facilities such as electronics, pneumatics and hydraulic testing for large aircraft like the B-747; locations: airport Baghdad, Iraq and airport Karachi, Pakistan.

Feasibility study and preliminary design of the electrical systems for the passenger terminal building for the international Airport Changi at Singapore

Electrical systems involved:

- \* power supply (50 MVA by 22 kV)
- \* emergency power
- \* centralised 400 Hz system
- \* public address system
- \* closed circuit television system
- \* flight information system

Supervision on special installations as 400 Hz maintenance systems at the Royal flight complex in SEEB, a place near Muscat, located in the Sultanate of Oman

Commissioning and handing-over procedures of the electrical installations of airport Kano, located in Nigeria.

Complete design, tendering and evaluation works for the following special systems for Murtala Muhammed Airport, Lagos Nigeria:

- \* flight information display system
- \* security X-ray system
- \* public address system
- \* closed circuit television system
- \* kitchen and catering building
- \* sewage treatment plant.

Conceptual design and specifications for the electrical installations of the new Istanbul airport at Turkey.

Supervision on the erection, testing and handing-over of a diesel engine driven H.V. power station at Taif airport, located in the Kingdom of Saudi Arabia. A power station consisting of five (5) diesel generator sets, each with a continuous output of 7.6 MVA, 11 kV.

Supervision on behalf of the Ministry of Defence and Aviation, Civil Aviation Department, on the realisation of the airfield lighting systems at Taif and Medina airport, located in the Kingdom of Saudi Arabia.

Construction of 4 runways with edge, taxiway, holding aprons and threshold-lighting and visual approach slope indicator systems including handing-over procedures and flight-testing.

1970 - 1972

Assistance during design activities for various petrochemical refineries with the engineering firm "Ingenieursbureau Keynes", Schiedam.