

Curriculum Vitae

R. Groenveld

Family name: Groenveld
First name: Rink
Year of birth: 1943
Nationality: Dutch
Education: Delft University of Technology, Delft, graduated as Civil Engineer, 1977.
Special subjects: Sanitary engineering, Hydraulic engineering.
Languages: Dutch, English and German fluently.

Professional affiliations:

- Member of the Royal Netherlands Institute of Engineers (K.I.V.I.).
- Member of the Permanent International Association of Navigation Congresses (PIANC).
- Member "Groupement Interuniversitaire Benelux Des Economistes des Transport" (BIVEC, Brussels).

Present position:

- Since 1978 - Associate Prof., chair: Ports, Waterways and Inland Navigation, Department Civil Engineering of the Delft University of Technology.
- Since 1980 - Lecturer Port Simulation Systems at the International Institute for Hydraulic and Environmental Engineering (IHE), Delft.
- Since 1989 - Director, Port and Maritime Systems Simulation (P.M.S.S.).

Employment record:

- 1968-1971 - Technical officer, Delft Hydraulics, The Netherlands..
- 1971-1977 - Technical officer, Delft University of Technology, The Netherlands.
- 1977-1978 - Technical commercial board co-operator, Tjaden b.v., Haarlem, The Netherlands.

Special assignments 1968-1978:

- 1968-1971 - Ferry harbour of Breskens, Eemshaven (port of Delfzijl) and the harbour of Ossensisse (all in The Netherlands).
 - Hydraulic model investigation related to the heightening of the bottom of the Nieuwe Maas in Rotterdam.
- 1971-1977 - Hydraulic model investigation on river bends.
- 1977-1978 - Acquisition for ground water well projects.
 - Provide an optimum relation between the technical and commercial board members of Tjaden b.v.

Special assignments Delft University of Technology:

- since 1978 - Lecturer port engineering.
- Research on computer simulation models for ports and inland navigation systems.
- Applications:
 1. Port of Zeebrugge, Belgium
 2. Port of Beira, Mozambique, 1983
 3. Port Delta Poort, The Netherlands, 1985
 4. Ports of Bahia Blanca Estuary, Argentine, 1986
 5. Inland Navigation in Kalimantan, Indonesia, 1986
 6. Lock complex IJmuiden, The Netherlands, 1990
 7. Container terminal Tanjung Perak, Surabaya, 1991
 7. Inland water transport system of containers between Rotterdam and the hinterland, 1992
 8. Port of Pipavav, Gujarat, India, 1995
- 1984 - Design nautical dimensions and layout approach channels to the Demerara and Berbice rivers, Guyana.
- 1985-1986 - Project leader analysis and design of the inland navigation network in South and Central Kalimantan, Indonesia.
- 1986-1992 - Project director co-operation between Delft University of Technology and Technical University Surabaya, Indonesia (ITS), with research projects on:
 1. Container terminal, port of Surabaya,
 2. Grindulu river (East Java) and
 3. Tuban coast protection (East Java).
- 1994-200 - Project director scientific co-operation between Delft University of Technology and Technical University Surabaya Indonesia (ITS) with research projects on:
 1. Approach channel to Palembang,
 2. Extension of Tanjung Priok (Port of Jakarta),
 3. Port efficiency study (Palembang, Pontianac and Tanjung Priok).
- 2002 - Maasvlakte Integrale Container Logistiek prepared for Connekt, The Netherlands
- 2002 - Development Smit tug simulation program, prepared for SMIT Harbour Towage Rotterdam B.V., The Netherlands

Special assignments P.M.S.S.:

- 1989 - Second opinion Paradip Ennore Coal Transport simulation study, India, prepared for P.A.S.
- 1990 - Simulation study extension liquid bulk terminal DOW Benelux, Terneuzen, The Netherlands, prepared for DOW Benelux.
- 1990 - Simulations Repsol Terminal Cartagena, Spain, Prepared for Frederic R. Harris.
- 1991 - Mersey Barrage Simulation Study, Liverpool, England, prepared for P.A.S.
- 1992 - Simulation study of the coal transport chain Talcher coal mines-Paradip-Kayamkulam/Nandigur, India, prepared for Frederic R. Harris.
- 1993 - Simulation study coal terminal New Mangalore, prepared for TEBODIN.
- 1995 - Vessel traffic simulation study for conceptual/feasibility study of the

- marine terminal at Jamnagar, Gujarat, India prepared for Delft Hydraulics.
- 1996 - Simulation study Jamnagar Refinery Complex, Gujarat, India, prepared for Delft Hydraulics.
- 1998 - Ruwais vessel traffic simulation study, United Arab Emirates, prepared for Royal Boskalis b.v.
- 2001 - Simulation study capacity estimation lock complex IJnuiden, The Netherlands, prepared for Directorate General for Public Works and Water Management, The Netherlands
- 2002 - Development Smit tug simulation program, prepared in co-operation with Delft University of Technology for SMIT Harbour Towage Rotterdam B.V., The Netherlands

Publications:

Since 1980, in total 26 papers were published on which R. Groenveld was the principal author.

- 1980 *Port simulation models*, Post Doc. Course on Ports, Delft University of Technology, Delft, The Netherlands.
- 1981 *Service systems in ports and inland waterways*, Lecture notes, Delft University of Technology, Delft, The Netherlands (last edition 2001)
- 1983 *Harborsim, a generally applicable port simulation model*, Delft University of Technology, Delft, The Netherlands.
- 1983 *The use of discrete computer simulation models for harbours in developing countries*, Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), Colombo, Sri Lanka.
- 1984 *Site investigations of ship movements in the Demerara and Berbice approach channels*, Papendrecht, The Netherlands. (Report in cooperation with Royal Boskalis Westminster N.V).
- 1985 *Applicability of simulation models in design of ports in developing countries*, International Navigation Congress (PIANC), Brussels, Belgium.
- 1986 *Analysis inland navigation network in south and central Kalimantan*, Symposium Lowland Development in Indonesia, Jakarta, Indonesia.
- 1987 *Economic optimisation of the wet infrastructure of ports in developing countries with capacity simulation models?*, Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), Beijing, China.
- 1990 *Modern methods for the design and control of inland waterways*, Permanent International Navigation Congress (PIANC), Section I, Subject I, Osaka, Japan.
- 1990 *The use of simulation models in ports and inland navigation*, Ir. R. Groenveld, Symposium on Coastal Port and River Engineering, Surabaya, Indonesia.

- 1990 *Keynote paper, Simulation techniques*, Third National Conference on Dock and Harbour Engineering Mangalore, India.
- 1991 *Computer simulation model new container terminal Tanjung Perak Surabaya ?*, Indonesia, Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), Mombasa, Kenya.
- 1992 *A new inland water transport system for containers between Rotterdam and Antwerp ?*, First European Research Round table Conference on Short sea Shipping, Delft, The Netherlands.
- 1993 *Service Systems in Ports and Inland Waterways ?*, Lecture notes Delft University of Technology, Delft, The Netherlands.
- 1993 *Marine Safety and Port Capacities*, International Conference on Marine Technology, Singapore.
- 1994 *New Concepts of Inland Water Transport between Rotterdam and the Hinterland*, International Navigation Congress, PIANC, Seville, Spain.
- 1995 *Low cost computer models for the design of the wet infra structure of the port of Pipavav*, India, Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), Rio de Janeiro, Brazil.
- 1995 *Optimization of the coal transport chain from the Talcher coal mines to the power plants at Kayamkulam and Nandigur*, India, PIANC-PCDC Seminar, Goa, India.
- 1996 *Design of approach channels with fast time manoeuvring simulation models*, International Conference in Ocean Engineering, COE96, Madras, India
- 1998 *Lock procedures to reduce water shortages in canals by using simulation techniques*, International Navigation Congress, PIANC, The Hague, The Netherlands.
- 1999 *Optimization study of the nautical depth of the approach channel to the port of Palembang*, Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), Cape Town, South Africa.
- 2000 *A simulation tool to assess nautical safety*, The International Workshop on Harbour, Maritime & Multimodal Logistics Modelling and Simulation (HMS-2000) Portofino, Italy
- 2000 *Estimation of nautical risks by using a low cost traffic flow simulation model*, Seminar of the Permanent Commission for Development and Co-operation, Buenos Aires, Argentine
- 2001 *Simulation study container terminal*, Indian Institute of Technology Madras, International conference in ocean engineering 2001, Chennai, India

- 2002 *Safety and capacity wet infrastructure Puerto America, Venezuela*
International Navigation Congress, PIANC, Sydney
- 2003 *A simple method to assess nautical risks*, Conference on Coastal and Port
Engineering in Developing Countries (COPEDEC VI), Colombo, Sri Lanka