

## CURRICULUM VITAE

### Personalia

Name	Willem Leeuwestein, MSc Civil Engineering
Date and place of birth	9 november 1954, Sliedrecht
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### Education

High School, Chr. Lyceum, Vlaardingen	1972	HBS-b; Mathematics, English, French, German, Physics, Chemistry, Bilology
Delft University of Technology	1982	Hydraulics, Coastal Engineering, Offshore Engineering Dredging techniques thesis: 'Boundary layer approach for a model on non-uniform Longshore current' and "Influence of gradients on the Dune erosion proces'

### Languages

Dutch: mother language  
English: good  
French: good  
German: good  
Norwegian: basic

### Courses

Design of Water Defences	1988	Post Academic Course, TU Delft
Project Management	1992	Berenschot
idem	1994	Projekt Consult
Presentation Techniques	1996	Boer consultants

### Profile

My profile is of an academic expert advisor and manager of projects with a multidisciplinary and innovative character.

## EXPERIENCE & CAREER DETAILS

### **2007-2010 Grontmij, dept. Infrastructure & Environment**

*position:* Senior Advisor Hydraulics and Morphology

*projects:*

'Climate impact on networks'; advise en workshop for the National Environmental Planning Bureau

Andijk Marina, advise on morphological effects of foreshore development.

'Zandmotor': investigation on innovative coastal protection in relation with EIA for Provincie Zuid-Holland.

Cooling water discharge structure Eemscentrale; hydraulic and structural design and advise for RWE (D).

Morphological advise Hoorn beaches and extension of Hoorn Marina.

Hydraulic and morphological design of bird island Kreupel (IJsselmeer).

### **2006-2007 Hogeschool Zeeland, dept. Civil Engineering**

*position:* Lecturer

*tasks:*

Development of course on hydraulic and civil engineering

Lecturing, project assistance and student examinations

### **2001-2006 Consultant Hydraulic Engineering**

*position:* Consulting Engineer

*projects:*

Development of Coastal protection schemes Goeree (2005)

International Evaluation of Benefits and Cost for River Water Management schemes (2003)

Evaluation of Rivers Rijn and Maas regarding changing Climate and Flood Risk (2003)

Evaluation of methods for Seasonal Weather Forecasting (2002-2003, 2004)

Study on Ocean-Atmosphere Interactions (2002)

Development of model for Atmospheric Circulation patterns (2001-2002)

Design Bed Protection at the IJssel bridge at Kampen (2001)

### **1999-2001 Rijkswaterstaat-Construction Department**

*position:* Project Engineer

*duties:* Project manager; Responsible for execution and commissioning of research projects, advising of National and Regional Directorates on innovative projects in hydraulic engineering and on development of practical management tools. Member of various project teams.

*projects:*

Research on offshore alternatives for new National Airport (Schiphol) (1999)

Computational model for Ship-induced Water Movements (2000-2001)

Design of offshore Extension II for the Port of Rotterdam (2000)

Design Bed Protection at the IJssel bridge at Kampen (2001)

Design alternatives for Coastal Defence Noord Holland (2001)

Study Water management Noordzee Canal, incl. IJmuiden Sluices (2000)

Optimisation model for dike improvement (2001)

Advising Filter structure for Harlingen harbour approach channel (2001)

Set-up of management structure for innovative research on hydraulic engineering (2000)

### **1998-1999 Waterloopkundig Laboratorium Delft**

*position:* Project Engineer

*duties:* Project manager offshore; Responsible for set-up of Market Unit Offshore, for research and consultancy regarding impacts on and effects from offshore structures and hydraulic infrastructure. Within Marine and Offshore Department responsible for research and consultancy projects regarding design of revetments and safety evaluations of dikes.

*projects:*

Study Wave conditions and Morphology for Khuff offshore pipeline (Abu Dhabi) (1998)  
Bed protection for NAM offshore platform (1999)  
Study Wave conditions offshore platforms (1998).  
Study environmental conditions NAM platform L9 (1999)  
Evaluation model for Safety Flood Defence Structures (1998)  
Study on basalt-type slope revetment systems (1998)  
Study design Wind conditions for dike improvement (1998)

**1988-1998 Rijkswaterstaat-Dienst Weg en Waterbouwkunde**

*position:* Project Engineer

*duties:* Responsible for execution and commissioning of research and for specialist advice and Risk Analyses regarding projects in hydraulic engineering.

*projects:*

European Manual 'Use of Rock in Coastal and Shoreline Engineering' (1988-1991)  
European Manual 'Use of Rock in in Hydraulic Engineering' (1991-1995)  
PIANC Report on Flexible Revetments (1988-1992)  
Studies on Flood Risk (1995-1998)  
Design of river-bed groynes for Waal River (1993)  
Study on river-bed screens for Waal River at Nijmegen (1998)  
Probabilistic Design Method for design of Bed Protection (1996, 1998)  
Alternative designs for spur dikes in Waal River (1995)  
Design of river bank protection for Merwede River (1995)  
Adjustment of design crest levels for improvement Oostvaardersdijk (1994)  
Study Wind conditions for evaluation of Flood Defences (1997)  
Advise on design of breakwater for Harlingen harbour (1998)  
TAW-Guidance Report on design and management of Water Defence Structures (1997)  
TAW- Guidance Report on design and management of Sandy Coastlines (1995)  
Study on Beach Nourishment and Offshore lateral Breakwaters (1997)  
Probabilistic Approach on Dune erosion (1998)

**1982-1988 Technische Universiteit Delft, Department of Civil Engineering, group of Hydraulic Engineering**

*position:* Scientific Researcher

*duties:* Project manager, responsible for analysing and solving problems regarding Offshore Structures and Coastal Protection schemes, commissioned by Offshore Oil & Gas Companies, Ministry of Economics and Rijkswaterstaat. Lectures and assistance for graduate students in hydraulic and offshore engineering.

*projects:*

Study on Self-Burial process of offshore pipelines (1982-1985)  
Study on Hydraulic Transport process of Sandfills (1985-1986)  
Evaluation of Shoreline Protection Structures in the Zeeland Delta (1986-1988)

**1978 Dansk Hydraulisk Institut (Kobenhavn)**

*position:* Student Researcher

*duties:* Project Assistant for Hydraulic testing and reporting, regarding wave disturbance in harbours, Breakwater Stability and Surveys of offshore pipelines.

*projects:*

Study Bintulu Breakwater (Indonesië) (1978)  
Study Misurata Breakwater (Libië) (1978)  
Study 'spanning pipelines' (1978)