

Curriculum Vitae

Name	Douwe Meijer
Date of birth	6 December 1966
Nationality	Netherlands
Present position	Independent consultant
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Education 1992 Delft University of Technology, Netherlands Civil Engineering (M.Sc.)

Courses

- 2016 Assessment and design of dikes with new safety levels (WBI-2017)
- 2013 Introduction course BASELINE 5 (MX Systems)
- 2009 Presentation techniques (MDF Training & Consultancy)
- 2009 BASELINE and WAQUA (GIS and 2D modelling) (MX-Systems)
- 2009 Environmental Impact Assessment Studies (ARCADIS internal course)
- 2007 SOBEK Rural: 1D flow and hydrology (WL Delft Hydraulics)
- 2007 Project Management (NCOI)
- 2002 Manager and Enterprise (Management Training by De Baak)
- 2000 SOBEK Course (block IV): Rainfall Runoff Modelling (PAO)
- 1999 SOBEK Course (block II): Real Time Control of Hydraulic Structures (PAO)
- 1997 General Commercial Qualifications (Chamber of Commerce standards: LOI)
- 1995 Project Management (Van Beek Assessment Centre)
- 1993 Introduction to Computational Fluid Dynamics (Von Karman Institute, Brussels)
- 1992 Software Engineering for Project Engineers (Gemini Cap Volmac)

Main discipline River management, flood protection, water management, river morphology

Languages

- Dutch: Mother tongue
- English: Proficient user
- German: Proficient user
- Polish: Proficient user
- French: Basic user

Employment record

- Since 1 January 2013
Owner and river management consultant in RiQuest
Consultancy, project management, modelling, hydraulics, morphology and hydrology
- 1 April 2008 – 31 December 2012
River management consultant in Water Division of ARCADIS Nederland BV
Consultancy, project management, modelling, hydraulics, morphology and hydrology, team manager
- 1 September 1999 – 1 April 2008
River management consultant, founder and partner in Meander Consultancy and Research
Consultancy, project management, modelling, business management, director
- 1 March 1996 – 1 September 1999
Advisor rivers and river management HKV consultants
Consultancy, project management, modelling, hydraulics, morphology
- 15 April 1992 – 1 March 1996
Project Engineer in WL Delft Hydraulics, The Netherlands (currently Deltares)
Consultancy, project management, modelling, research, hydraulics, morphology

15 January – 15 March 1992

M.Sc. student, Laboratory and field work at the Faculty of Civil Engineering

ITS Surabaya (Indonesia)

Theoretical, experimental and field research

Work Experience

Riquist (2013 to date):

- Netherlands (2017-2018): Extension of industrial harbour at the Meuse river, Environmental Impact Assessment study (EIA), River Impact Study, client: Teunesen Zand en Grint BV / AVG
- Netherlands (2017-2018): Flood defence at the River Waal, EIA of flood channel Varik-Heesselt and dike reinforcement Tiel-Waardenburg, river study, additional assignment for elaboration of dike reinforcement, client: Waterschap Rivierenland (subcontract of Sweco Nederland BV)
- Netherlands (2013-2018): General support for ongoing river widening projects and mineral extraction at the Common Meuse, client: Consortium Grensmaas BV
- Netherlands (2017-2018): Elaboration and assessment of the sand-extraction lakes Willemspolder and Gouverneurspolder (Middle Waal), in co-operation with Anneke de Joode Rivierkundig Advies en Agtersloot Hydraulisch Advies, client: Dekker BV
- Netherlands (2017-2018): Optimization of retention area Lateraalkanaal-West Phase 2 (Maasplassen), in co-operation with Anneke de Joode Rivierkundig Advies en Agtersloot Hydraulisch Advies, client: Maasgrind BV
- Netherlands (2013-2018, ongoing): Delta Programme River Meuse: Flood modelling of 15 future cases in the time frame 2020 to 2100 under anticipated climate-change scenarios, signalization of threatened areas and weak points in the flood defence, flood mapping and dike height analyses, extended assignment in 2015 with modified safety norms, co-ordination and quality assurance, various additional assignments, co-operation with AHA, ARCADIS and Kragten, client: Province of Limburg
- Netherlands (2014-2018, ongoing): General project support for spatial planning projects near the River Meuse within the framework of the Delta Programme, optimization of flood-defence projects, several parallel assignments, clients: Groen & Co, Kuypers-Kessel, Municipality of Maastricht, Flemish-Dutch Working Team Common Meuse, Stichting Natuurmonumenten, Maasgrind
- Netherlands (2013-2018, ongoing): General project support for spatial planning projects near the River Meuse, optimization of flood-defence projects in northern Maas, in co-operation with Grontmij Nederland BV and Groen&Co, client: Teunesen Zand en Grint BV / DCM BV
- Netherlands (2013-2017): Meuse Programme since 1999 (Programma Maaswerken): coordination of feasibility and realization studies for flood defence on basis of mathematical model studies (1D and 2D), consultancy on navigation and morphology: contribution to the Meuse Assessment Study, flood defence of Den Bosch, detention basins and river measures, various detail studies, member of several advisory teams (Ministry of Public Works and Water Management)
- Germany (2016-2017): Update of Baseline dataset and hydraulic SOBEK model (1D) of the Niederrhein from Andernach to Pannerdensche Kop using GIS2PROF, recalibration of the model, in co-operation with Arcadis, client: Bundesanstalt für Gewässerkunde (Federal Institute for Hydrology) in Koblenz
- Netherlands (2017): Workshop on ecological targets in the Common Meuse within the framework of Natura 2000, client: RoyalHaskoning DHV BV
- Netherlands (2017): Flood protection in the southern Meuse valley (in and around Maastricht), preliminary study, in co-operation with Antea Group, BVR landscape architects and HKV consultants, client: Municipality of Maastricht
- Netherlands (2017): Re-profiling of the sand-extraction lakes Heerewaarden and St. Andries, project support for permit procedure, in co-operation with Anneke de Joode Rivierkundig Advies, client: Ingersche Waarden BV
- Netherlands (2016): Second opinion on spatial designs and hydraulic computations for the projects Wijnaerden and Meeuwissenhof for a EIA and a permit procedure, client: Kuypers Kessel BV

- Netherlands (2016): Support of a permit procedure for the reconstruction of a residential object within the floodplain boundary of the Meuse River, in co-operation with Acima and Horizon Advies, client: Mr. Burgers
- Netherlands (2016): Preparation of shape files (review, corrections and update of national dike file and inundation polygons) for the project WTI-2017 (national 6-yearly review of flood safety), three project presentations for different stakeholders, client: Ministry of Infrastructure and Environment (Rijkswaterstaat WVL)
- Netherlands (2016): Realignment waterfront Zutphen (river IJssel), river management consultant, client: Municipality of Zutphen
- Netherlands (2015-2016): Recreational navigation on the Overijsselse Vecht, exploration of actual and future accessibility (and desired requirements) for recreational navigation classes, based on riverbed measurements and ecological rehabilitation projects in preparation (in sub-contract of Movares Nederland BV), additional assignment: expert in workshop in January 2016, client: Province of Overijssel with Waterboard Vechtstromen
- Netherlands (2015-2016): Realignment of the entrance of the harbour Haaften at the river Waal, project support, client: U-Flow / Rijkswaterstaat (East-Netherlands)
- Belgium / Netherlands (2015): Common Meuse northern section, elaboration of flood protection measures between Maaseik and Maasbracht in the framework of the Delta Programme, river management consultant, co-operation of Flemish and Dutch river authorities, client: nv De Scheepvaart (B)
- Belgium (2015): Boeien-Veurzen, hydraulic assessment of the first stage of a river project at the Common Meuse, using 2D model simulations, client: nv De Scheepvaart
- Netherlands (2014-2015): redevelopment of the lower reach of the creek Geleenbeek, assessment study into ecology and flood safety of the Geleenbeek and the River Meuse, client: Ministry of Infrastructure and Environment / Waterboard Roer en Overmaas (subcontracted by Grontmij Nederland BV)
- Netherlands (2014-2015): Shoals near Venlo, model study on dredging options of the Meuse waterway near the town of Venlo for navigation class Vb, two assignments, client: Ministry of Infrastructure and Environment (second assignment in subcontract of Grontmij)
- Netherlands (2014-2015): Technical assistance in dike reinforcement project Schoonhovenseveer-Langerak (Lower Rhine branch 'Lek') in the framework of the Room for the River Programme, client: Waterschap Rivierenland (water board), in co-operation with De Vries en Van de Wiel (contractor), Movares (engineering office) and Rijkswaterstaat (Ministry of Infrastructure and Environment)
- Netherlands (2012-2014): Regional Process of the Delta Programme in the Province of Limburg, elaboration of flood measures, integration with regional developments along the River Meuse, general project support, participation of Province, Municipalities and Water Boards, co-operation with ARCADIS Nederland BV, client: Province of Limburg
- Netherlands (2013): Analysis of downstream effects by upstream inundations of dikes with a lower safety level Client: Delta Programme Rivers (Deltaprogramma Rivieren)
- Netherlands (2013): Environmental Impact Assessment Maasplassen (Regional flood protection package for the Meuse River between Roermond and Venlo), in co-operation with ARCADIS Nederland BV, Client: Province of Limburg
- Netherlands (2013): Risk analysis of sedimentation of a culvert structure of the creek Aa under the navigation channel Zuid-Willemsvaart, client: Waterschap Aa en Maas
- Ukraine (2013): Member of expert panel and presentation on flood management in seminar "Flood Communication and Information Exchange in Dniester River Basin" in Lviv, March 2013, organized by ENVSEC (Geneva, CH) / OSCE (Kyiv, UA)

ARCADIS (2008-2012)

- Netherlands (2008-2012): Meuse Programme since 1999 (see Riquet)
- Brazil (2012): Strategic Masterplan for the Development of Inland Waterway Transport and Waterways Brazil, river management consultant, in co-operation with ARCADIS Logos, client: Brazilian Ministry of Transport
- Netherlands (2011-12): Millingerwaard, design optimization of a flood protection project at the Waal River (principal Rhine branch: floodplain lowering, flood channels), hydraulic modelling, client: Dekker van de Kamp BV / K3 Delta BV

- Belgium (2011-12): Design optimization of eight hydraulic bottlenecks (15 designs) at the Common Meuse between Belgium and the Netherlands, hydraulic simulations, client: nv De Scheepvaart (Flemish River Authority)
- Germany (2011-12): Flood simulation and assessment at a water extraction site “Zonser Grind” at the Niederrhein (Lower Rhine) between Köln and Düsseldorf, in co-operation with ARCADIS Germany, client: Stadtwerke Düsseldorf (Municipality of Düsseldorf)
- Haiti (2011): Flood risk assessment at Leogâne (river Rouyonne), client: UN Habitat
- Netherlands/Belgium (2010-11): inventory and interpretation of geomorphological data of the river Meuse from Eijsden to Lith 200 km
- Netherlands (2010): Quick Scan Meuse, inventory of river measures between 2020 and 2100, additionally to running programs for the compensation of higher flood discharges due to climate change, Client: Province of Limburg
- Morocco (2010): Participation in Netherlands Trade Mission to Casablanca, presentation of the Nador port project (among others), representing ARCADIS, in co-operation with the University of Oujda, organized by the Netherlands Ministry of Economic Affairs (HIC)
- Morocco (2009-2010): Expert hydraulics and hydrology for design of new port at Nador: design support, consultancy and hydrological and hydraulic modelling of three wadis which mouth into the new port area, sediment and flood management, client: Moroccan National Port Authority
- Germany (2008-2009): Rhein Maxau-Andernach (SOBEK hydraulics and morphology): Construction of three GIS (Baseline) spatial models of the Mittelrhein (279 km) and eight derives 1D models (SOBEK) of several historical and actual geometries and future variants, hydraulic and morphological model calibration and verification using SOBEK graded, morphological simulation 1993-2006 considering sediment layers and sieve curves, the model is now permanently operational in a German-Dutch water-level prediction model. Client: German Federal Institute for Hydrology (BfG)
- Germany (2008-2009): Design support of detention polder Lohrwardt along the Niederrhein river: flood simulation and presentation of reference situation and two designed scenarios of the polder (flood animations in AVI-files), client: Wasserverband Bislich-Landesgrenze (German Water Board) in co-operation with Gewecke und Partner GmbH
- India (2008): Water management consultant, flood simulations and design optimization of an urban development program with 100 years flood safety requirement, client: Elbit Developments in Bangalore
- Netherlands (2008): Model study to the morphological effect of a realignment of the northern quay of the River Rhine at the city of Arnhem

Meander Consultancy and Research (1999-2008)

- Netherlands/Belgium (2007-08): Design of bed and bank protection in the Common Meuse at Meers and the Juliana Canal, determination of design parameters on the basis of existing modelling studies, client: The Meuse Programme, in subcontracting of Movares Nederland BV (Ministry of Public Works and Water Management)
- Netherlands/Belgium (2007-08): Design simulations for 4 weirs in the Common Meuse (Aan de Maas and Meers), project Mitigation Groundwater effects phase 3), client: The Meuse Programme (Ministry of Public Works and Water Management)
- Belgium (2007-08): Processing ‘Levende Grensmaas’, hydraulic optimization of supplementary measures in the floodplain of the Meuse river after the execution of two major projects of the Dutch and Belgian authorities, modelling study using Baseline and WAQUA, hydraulic advisor and contract manager, in co-operation with Aeolus, Lisec en Inbo, client: Belbag
- Netherlands (2001-2012): Exploration and optimization of the design for the restoration of an old river branch for flood mitigation and ecological purposes, assignments for several clients: Rijkswaterstaat Maaswerken, Movares, Dienst Landelijk Gebied, Programmabureau Ooijen-Wanssum
- Malaysia (Kuala Lumpur, 2007): Training SOBEK Rural/River for the Malaysian Drainage and Irrigation Department (Ministry of Water Management): hydrology, hydraulics and weir control, pilots for the Melaka and Perlis catchments, project supported by the Dutch Ministry of Economic Affairs, in co-operation with Alkyon Hydraulic Research and Consultancy

- Netherlands (2007): Determination of water levels in the Meuse after the execution of the Meuse Programme (2015) for several discharge levels, on the basis of 2D WAQUA modelling, client: Waterboard Peel en Maasvallei
- Netherlands (2007): System analysis Rhine-Meuse mouth: participation in an advisory committee for a survey on the safety of the Lower Delta Area in the Netherlands towards the year 2100 (initiated by the Dutch Parliament), client: Ministry of Public Works and Water Management (in subcontracting of HKV Consultants)
- Belgium (2006-07): 'Common Meuse: southern sector': hydraulic and morphologic study aiming to expose the effects of measures in the Meuse river floodplain at the locations Hochter Bampd, Herbricht, Kotem, Maaswinkel and Mazen-hoven. The project involves a wide array of designs, environmental settings, future perspectives and differing tidal conditions), project leader, in co-operation with Haskoning Belgium, assigned by: nv De Scheepvaart (Ministry of the Flemish Community, Belgium)
- Netherlands (2006-07): Project Meuse 2015: Flood scenario's in relation to the project 'Optie Aa en Maas', development of future scenarios (Baseline), WAQUA-study: assessing the downstream effect of the flooding of parts of Belgium' Flanders (Mijnverzakkingsgebied), assigned by the Ministry of Public Works and Water Management
- Germany / Netherlands (2006-2007): Development and calibration of the WAQUA-model Andernach-Lobith, done with the new Baseline database (GIS), client: Ministry of Public Works and Water Management, RIZA
- Germany (2006): Advisor in the development of a GIS database of the Niederrhein from Andernach to Lobith (250 km) and its contributory rivers Sieg, Ruhr en Lippe, for the years 1995 and 2005, client: Bundesanstalt für Gewässerkunde
- Netherlands (2006): Verification national SOBEK model: transformation of the national SOBEK model of the Netherlands (Rhine branches, Meuse and delta) from SOBEK RE into River (under SOBEK Rural), project advisor and quality assurance, client: Ministry of Public Works and Water Management (RIZA)
- Netherlands (2006): Strategy development in 'Stroomlijn': project aiming to test the hydraulic effectiveness of sustenance of vegetation in Rhine and Meuse floodplains, in cooperation with Arcadis, assigned by the Ministry of Public Works and Water Management, Eastern Netherlands
- Netherlands (2006): Expansion of the harbour in the Mokerplas, expert judgement in relation to legal authorization, client: Boiten Raadgevende Ingenieurs
- Netherlands (2006): Advisor in a recreational housing project near Ohé: expert-judgement and modelling study (WAQUA) in relation to legal authorization, client: Boiten Raadgevende Ingenieurs
- Netherlands (2006): Advisor in a recreational housing project near Well: expert-judgement and modelling study (WAQUA) in relation to legal authorization, client: ESBI Huis
- Netherlands (2006): KB-maps 2006: advisor in the development and design of the (concept) maps showing the outer limits of the Meuse river and the flow conveying zone, assigned by the Ministry of Public Works and Water Management, Limburg
- Malaysia (2006): short mission to Kuala Lumpur to advise the Malaysian authorities in the implementation and use of modelling-software, in co-operation with Alkyon; client Dutch Ministry of Economic Affairs
- Netherlands (2006): Participation workshop 'GIS and SOBEK cross-sections', presentation GIS2PROF, client: GIS Larenstein
- Netherlands (2005-06): Model management plan for Dutch Ministry of Public Works and Water Management (Rijkswaterstaat), guidelines for consistent use, management and maintenance of hydraulic simulation models (software and model data bases), data management. Interviews with 10 persons within several departments of Rijkswaterstaat, drafting of the model management plan
- Germany (2004-2006): Development of a GIS program for the generation of cross-sections for 1D hydraulic modelling program SOBEK, additional assignment for software applications for the modelling software WAVOS and FLYS, based on the Baseline 4.0 data protocol. Client: Bundesanstalt für Gewässerkunde (Koblenz, Germany)
- Netherlands (2005): Desk and model study on prediction margins for the River Meuse. Hindcast simulations for four flood situations in 2001-2002. Analysis of the quality and

sensitivity of the flood prediction model, Client: Ministry of Public Works and Water Management

- Netherlands (2005): Hemertsche Waard, modelling study on a flood channel in the River Meuse, client Delgromij BV
- Poland (2005): Technical assistance in implementation of the EU Water Framework Directive 2000 in Poland. Consultancy for river basin management, four missions to Poland (Warsaw, Wroclaw, Cracow), participation in workshops and contributions to project reports, Client: Polish Ministry of Environment, in subcontract of ARCADIS Euroconsult (2005)
- Netherlands (2005): Hydraulic Model Study Assessment of the effects of a redesign of a side-channel of the river Meuse at Meers in the actual situation. Special attention for the prevention of river bank erosion at the Flemish side, Client: Ministry of Public Works and Water Management (in co-operation with Flemish Authority)
- Netherlands (2004-2005): Hydraulic Model Study Assessment of the effects of a redesign of a side-channel of the river Meuse at Meers (NL) in the final situation (2015). Special attention for the resulting increase of low water levels for groundwater purposes, Client: Ministry of Public Works and Water Management (in co-operation with Flemish Authority)
- Belgium (2004-2005): The hydrological and hydraulic behaviour of the Woluwe catchment (Belgium) is completely assessed and modelled, including the sewage system. The resulting model is used to derive characteristic hydrogram sequences for the area (Modelling environment: Infoworks), Client: Flemish Authority (in co-operation with Alkyon and Studiebureau Talboom, Belgium)
- Netherlands (2004): Side channel Hoogvliet (near Rotterdam), hydraulic assessment of a designed side channel - data analysis and expert judgement, Client: Bureau Strooming
- Netherlands (2004): Design review of a recreational port after adaptation of a barge terminal at the River Meuse (near Venlo)
- Netherlands (2004): Design review of a recreational port after adaptation of a barge terminal at the River Meuse (near Venlo)
- Netherlands (2004): Modelling of the channel Noordervaart in Duflow, client: Rijkswaterstaat, Dienstkring Waterwegen Roermond
- Nicaragua (2004): determination of discharge characteristics of the Rio Escondido (in co-operation with Alkyon Hydraulic Consultancy & Research)
- Netherlands (2003-04): Design support for two flood channels in the River IJssel (in co-operation with Tauw Consultancy)
- Belgium (2003-2004): Hydrological modelling Molenbeek (rainfall-runoff) using InfoWorks PDM – project co-ordination
- Netherlands/Belgium (2003): Workshop on River Morphology for the Common Meuse Project, presentation of Environmental Impact Assessment Study (Morphology) and morphological assessment of the effects of the Flemish river measures, in co-operation with Royal Haskoning, Rijkswaterstaat (Netherlands) and Aminal (Belgium) (2003)
- Netherlands (2003): Gendtse Waard – assessment of several designs of a flood channel in the floodplain of the River Waal, analysis of morphological impacts (2003)
- Netherlands/Belgium (2002-03): Environmental Impact Assessment Study for the Common Meuse (part: River Engineering), hydraulic and morphological assessment of river measures for flood-defense and nature rehabilitation, project leader for morphological study, in which graded-sediment computations are executed. Co-operation with Royal Haskoning
- Netherlands (2001-02): Implementation study for GIS database system BASELINE at Ministry of Public Works and Water Management, Directory East-Netherlands
- Netherlands (2002): Project support for the Water Board IJsselmonde: judgement of proposals and conducted work by third parties
- Netherlands (2002): Hydraulic model studies for flood-defense and nature rehabilitation projects in a tidal area (Biesbosch) in two locations (two assignments)
- Germany (2001): SOBEK model of the River Mosel, 1D hydraulic model for flood forecast purposes, framework: IRMA-SPRONGE, assigned by NCR (Netherlands Centre for River Management) co-operation of the Dutch Ministry of Public Works and Water Management (RWS/RIZA) and the Bundesanstalt für Gewässerkunde Koblenz (Germany)

- Germany (2001): Support Bundesanstalt für Gewässerkunde (Koblenz), SOBEK modelling and project co-operation: assigned by the Dutch Ministry of Public Works and Water Management (RWS / RIZA)
- Netherlands (2001): Navigation experiments and measurements in the River Vecht, assigned by Water Board Amstel Gooi en Vecht, DWR (in co-operation with Boogaard Natte Infrastructuur)
- Netherlands (2000-01): River port in the River Noord, assessment of future sedimentation in a planned river port, assigned by: Grontmij Zuid-Holland (in co-operation with Alkyon Hydraulic Research & Consultancy)
- Germany (2000-2001): SOBEK model of the River Main, 1D hydraulic model Würzburg-Mainz, framework: LAHOR-project, assigned by the Ministry of Public Works and Water Management (RWS/RIZA) in co-operation with the Bundesanstalt für Gewässerkunde Koblenz (Germany)
- Poland (2000): Project presentation on the Meuse Program at the Conference ‘Water Management in Poland in the 21st Century’ organised by the Partnership for the Odra in Wroclaw, Poland, 12-13 November 2000
- Netherlands (2000): Hydraulic flood simulations in the mouth of River IJssel: assessment study how a nature rehabilitation project effects water levels at high discharges using the 2D-modelling system WAQUA (client: Rijkswaterstaat Directie IJsselmeergebied)
- Netherlands (2000): Hondsbroeksche Pleij, Floodplain widening at the bifurcation of the rivers Rhine and IJssel (project support: in co-operation with Witteveen+Bos, client: Rijkswaterstaat Directie Oost Nederland)
- Austria (1999): Presentation for the 29th IAHR congress in Graz (AU): Prototype Scale Model Investigation on Hydraulic Roughness of Submerged Vegetation
- Netherlands (1999): Participation in a workshop dealing with modelling and controlling hydraulic structures in SOBEK and WAQUA
- Netherlands (1999): Organisation of navigation tests in and around a ship lock in the Utrecht canal network: assessment of navigability, discharges and velocities under experimental water-management conditions (in co-operation with local and national authorities)
- Poland (1999): Participation at MATRA-forum in Szczecin, presentation: Decision Support Systems in River Engineering in the Netherlands
- Germany/Netherlands (1998-99): Participation in LAHOR project: extension of SOBEK model with trajectories of the Rivers Rhine and Neckar using GIS-data and the database system BASELINE for purposes of common water-level forecasts, in co-operation with RWS/RIZA, Bundesanstalt für Gewässerkunde (Federal Institute for Hydrology), Geodan

HKV Consultants (1996-1999)

- Netherlands (1998-99): 2D and 3D model computations into measures concerning groins in the River Waal using the modelling system DELFT3D (in co-operation with Alkyon Hydraulic Research & Consultancy)
- Netherlands (1998-99): Development of a GIS application for the generation of SOBEK profiles and a GIS application for the determination of SOBEK section boundaries based on 2D WAQUA results within the GIS database system BASELINE (two separate assignments in co-operation with Geodan Geodesie), client: Ministry of Public Transport and Water Management
- Switzerland (1997-99): Hydraulic and morphological modelling of a stretch of the River Rhone between Brig and Leuk for simulation of flood measures and morphological developments using the 1D-modelling system SOBEK. Additional project on graded sediment (with WL|Delft Hydraulics). Additional support and training activities on site in Switzerland concerning dredging scenarios, river widening and retention reservoirs (in co-operation with Teyssere & Candolfi AG: in total five projects)
- Germany/Netherlands (1998): Connection of German SOBEK-model Andernach-Lobith and the Dutch SOBEK-model of the Rhine branches, designed for the flood-forecast system FLORIJN
- Netherlands (1998-99): Study on water management measures in the city of Utrecht by numerical modeling (SOBEK), Waterboard HDSR
- Netherlands (1998): Several numerical simulations of flood protection measures at the Sallandse Weteringen

- Netherlands (1998): Member of M.Sc. committee of a student at the University of Twente (subject: hydraulic roughness of submerged vegetation / turbulence and shear stress measurements and modelling)
- Netherlands (1998): Functional design of a pre-processor, used for the automation of the input and groundwater estimations of the flood forecast system FLORIJN, testing activities, report and manual
- Netherlands (1998): Upgrade of mathematical model of the Dutch Rhine branches, used by the Ministry of Transport, Public Works and Water Management
- Netherlands (1997-98): Scale model investigation on hydraulic roughness of submerged vegetation
- Netherlands/Czech Republic (1997): Contribution to a workshop on hydraulic modelling of the River Morava with the Masaryk Water Research Institute from Prague
- Germany/Netherlands (1996-97): Hydraulic modelling of the German Rhine from Andernach to the Dutch border for flood forecast purposes in the Netherlands, project presentations in Arnhem, presentation and workshop in Koblenz
- Netherlands (1996): Modifications in the SOBEK-model 'Noordelijk Deltabekken'
- Netherlands (1996): Design support of secondary channel in the river Waal (Herwijnen) using the 1D-modelling system SOBEK (flow and morphology)
- Netherlands (1996): Design support of secondary channel in the river IJssel (Koppelerwaard) using the 1D-modelling system SOBEK (flow and morphology)

WL Delft Hydraulics (1992-1996), currently Deltares

- Physical model and prototype studies into numerous projects and objects:
 - morphological processes, flood levels due to measures in the River Meuse (1995-96);
 - second ship-lock at Lith at River Meuse (1994-95)
 - prototype scale of wave impacts on a grass dike (1993)
 - the impact of bow-thrusters on bank protections (1993)
 - into bed protection at the Storm Surge Barrier in the Hartelkanaal (1992)
 - bed protection at the Maeslant Storm Surge Barrier in the Nieuwe Waterweg (1992)
 - inflatable weir at Ramspol (1992)
 - the wave impact on reed and bulrush vegetation (1992)
 - prototype measurements of ship waves in the river Waal (1992)
- Mathematical model studies:
 - Rhine-branches (SOBEK flow and morphology) (1994-95)
 - second ship-lock at Lith (DELFT3D) (1994-95)
 - sediment distribution in bifurcations (Fluent 3D) (1994)
- Desk and inventory studies:
 - sedimentation and siltation in inland harbours in the river Rhine at Lobith (1994)
 - of ecological rehabilitation project in the IJssel-delta (1994)
 - development of computational method "Loss of Containment"; outflow of liquid containment and gases caused by navigation disasters (1993-95)
 - project into inlet structures and sand traps in rivers (1993)
 - the impact of bow-thrusters on bank protections (1993)
 - valuation of current and groyne effects, validation of computational method (1992)
 - influence of vegetation roughness at a river bank on wave-induced velocities and shear stresses, theoretical study (1992)
 - literature survey on methods of dimensioning geotextiles (1992)

Software

- Operating System: DOS, Windows 10
- Programming-language: Matlab, Pascal
- Office Software: MS Word, Excel, Power Point (Office 365: 2016)
- Software: Baseline, SOBEK, Delft3D, WAQUA, MapTable, ArcGIS

Last update: 10 April 2018