

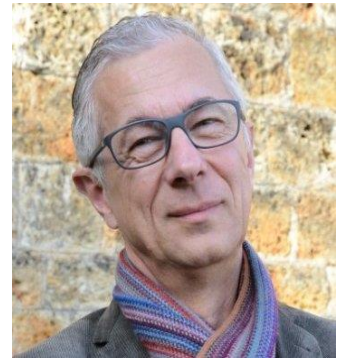
CURRICULUM VITAE

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Hydraulic Chief Engineer for design of pumping stations, Transfer pipe and canals and regulation

38 Years of experience as Hydraulic Engineer

11 years in the Suez Environment Group

STRONG EXPERTISE FOR EXTREMELY COMPLEX PROJECTS (SEE DÉTAILS IN THE CV):

- Urgency: Design and build of SAA project in Algiers in 9 months instead of average 3 years for such projects
- Complexity: Design of very deep and high capacities pumping stations in the center of Buenos Aires
- Critical for Capex and Opex: Intake and transfert pumping station for Melbourne desal plant

PROFESSIONAL EXPERIENCE

CONSULTANT: CCO PUMPS AND TRANSFERTS CONSULTING – DEC 2013 until today

DEGREMONT (Groupe SUEZ), Rueil-Malmaison - 2008 until Dec 2013

Chief of the hydraulic domain and then Chief Engineer for the BioSav project (Paris sewage treatment Plant)

BJC (BRL *ingénierie subsidiary*), Alger - 2007 to 2008

Technical Director

BRL *ingénierie*

Nîmes - 1975 to 2007

Project Manager in the Pumping stations, Transfer and regulation division.

Buenos Aires - 1994 to 1997 and 1999 to 2001

Secondment as Head of Pumping Stations and Regulation Department at SAFEGE-MONTGOMERY WATSON (LYONNAISE DES EAUX) group in Buenos Aires.

MAIN PROJECTS ACCOMPLISHED

2014 PARIS – PREPARATION OF TWO BIDS INCLUDING BIG PUMPING °

- One with two pumps 3 m³/s 99m
- One with revamping of a big pumping station 40 m³/s, in which very original solutions were found in spite of various site and delay constraints. For that Bid was used **Infoworks software** for studies of hydraulic phenomenon's during rainy y/o flood period

2009 AND 2013 PARIS – ACHÈRES SEWAGE TREATMENT PLANT – BIOLOGICAL AND PRE-TREATMENT

- Hydraulic Chief Engineer for the OTV/Degremont Joint Venture, in charge of the General Hydraulic Design for the Bid Preparation and then the Detailed studies. The main problems are:
 - An existing design very complex and densified.
 - The project includes 3 big pumping stations from 6 to 35 m³/s.
 - Big canals open or closed between the different process buildings.
 - For that project was used **SIC² software** for steady and transient hydraulic studies for optimisation of canal dimensions.
 - Physical model, 40m long, for simulation of transient in the closed channels (normally functioning with free surface).
- Hydraulic Chief Engineer for Degremont team in charge of the General Hydraulic Design for the Bid Preparation and then the detailed studies of the 70 m³/s Pre-treatment installations. The main problems are: an existing design extremely complex, the need of building an hydraulic model to verify and optimise the design.

2008 to 2011 AUSTRALIA

Hydraulic Chief Engineer for the Thiess/Degremont Joint Venture for the Bid and then the Detailed studies for the Melbourne Project (Water desalinisation) which includes :

- A deep lift pumping station from the infall to the big drums level (16 m³/s)
- A filter pumping station to the HP pumps (16 m³/s)
- A transfer pipe 80km long (2m diameter, 6 m³/s) with head pumping station and then flow accelerator (New design in comparison to the one of the client with notable decrease of CAPEX and OPEX).

2008 à 2011 KHAZAKSTAN, INDIA, IRAK, CANADA, ALGERIA, SPAIN, HONG KONG, PANAMA, CHILE, ARGENTINA....

2 to 30 days assignments on preventive or curative interventions on big projects (2 to 30 m³/s) or simply to decrease Capex or Opex costs.

Preventive or curative management and technical follow up of more than 10 CFD and/or physical modelling contracts.

2003 ALGERIA

To 2007 Project Director for the transfer from the ground water of Chott el Gharbi to the urban area South of Tlemcen (60 deep wells, 600 km of 300 à 1000 mm conduct, 9 pumping stations, 25 tanks and remote control systems for the whole works – 95 satellites).

Project director and technical manager of the Hammam Boughara dam conveyance line project to Maghnia and Oran:

Phase 1 Maghnia, 13 km of DN700 pipes. Two pump stations. One 500 l/s treatment plant.

Phase 2; 80km of DN1400 pipe. Booster and pre-treatment plant, 1.5m³/s.

2005 and CHINA**2006**

Project Director: Technical assistance for the studies of feasibility, environment and population relocation for the waste water and solid waste management in 20 medium-sized cities along the Han River in the province of Hubei (project financed by the World Bank and French Grant by the Ministry of Economy and Finance).

Team Leader Technical assistance to prepare Henan Province Drinking Water Supply and Sewerage project (Client: Henan Province Finance Office, Name of funding organization: French Government - FASEP)

Assistance to local consultants during the preparation of feasibility studies and design to international standards ensuring expertise to the level required by the World Bank, for all 12 pilot towns and then for the remaining 32 towns.

2004 HUNGARY

Technical assistance assignment for Suez to study improvements in pumping and regulation structure functioning (80 interconnected pumping stations) and reduction of operating costs.

2002–2003 ALGERIA

Director of the Algiers Drinking Water Supply Extension Project.

This project includes a modular 2 m³/s treatment plant, 60km of 800 to 1200mm diameter pipes, two pumping stations, one of which has a capacity of 8MW, a large reservoir and an automatic control system to supply the city of Algiers with drinking water from three dams instead of using depleted local water resources.

The particular specificity of this project is its imposed rapid performance time, i.e. 3 and 6 months, whereas normally this type of works takes at least 2 to 3 years.

1994-1997 ARGENTINA**And****1999-2001**

Secondment to Argentina with Safège-Montgomery Watson on Buenos-Aires drinking water supply project.

Head of Pumping Stations and Regulation Department.

Expert for the pumping station of waste water in Berazategui (33 m³/s).

- Intake structure at the outlet of the stormwater drainage system (check valves for a flow of 250m³/s and a 5m³/s pumping station,
- “Planta Capital” complex project including two 25m³/s pumping stations and a sewage plant.
- Detailed design and tender documents for two underground pump stations with a capacity of 3 and 5 m³/s. The design includes the optimisation of 50 km of delivery pipes arranged in a star-shape around the pump station and 17 regulation gate chambers (no regulation tank).
- Design of a real-time automatic central dispatch system operated from the pump station for the 17 gate chambers.
- Design of rehabilitation works on Wilde lift pumping station for wastewater (40 m³/s),

1987-1998 BRAZIL

“FORMOSO A” irrigation scheme:

- 60 km of canals, 1 intake station (1.6 m³/s and 36 sprinkler pumping stations). The entire system operates automatically and under remote control.

Baixo de Irece irrigation scheme:

- Feasibility study, detailed study and Tender Documents for a header station with a capacity of 60 m³/s and lift pumping stations.

1976-1999 MOROCCO

Project manager - Improvement of management and maintenance on Loukkos schemes.

Gharb Scheme - Second Stage of Irrigation - Design of the first four pumping stations (4.5 to 30 m³/s):

Rabat-Kenitra Drinking-water supply system, with 10 drilled wells producing 50 l/s and a supply line 20 km long, within a network of 10 old pumping installations.

Casablanca Drinking-water supply system, with a variable-speed pumping station of 3.6 MW at the head of a supply line 90 km long.

1994 SENEGAL

Dakar water supply:

Definition of the basic principles for the automatic control system designed to run the drinking water system (78 structures spread over 300km).

1978-1985 SYRIA

Lower Euphrates Valley (100,000 ha) involving power lines and pumping installations for:

- Irrigation: 30 pumping stations with design discharges of between 2 and 24 m³/s.
- Vertical drainage: 280 drilled well-pumps with discharges ranging from 10 to 50 l/s.

1980 SAUDI ARABIA

Al Jawf Scheme: 18 rig-drilled well pumps and 3 accelerating stations with a discharge of 500 l/s per pump.

Expert appraisals

1981-1991 VENEZUELA, IRAN, GUINEA

Caracas Urban Water Supply and Tabriz water supply, UNDP assignment

Research work

LIBYA

Syrte project area: Engineering work on an experimental system for inner and outer cathode protection of rig-drilled wells.

Supervision of installation and adjustment of the device.

Engineering involved in an industrial system for the same purpose.

Training works

For Degremont: creation of more than 40 hours of classes in hydraulics, pumps and transferts from basic to high technical level.

Hydraulic classes for engineers in Institut Galilée Master (Villetaneuse – Paris)

At the "Lycée Agricole de NIMES-RODILHAN" - lectures on hydraulics for students training as higher technicians.

At BRL's training centre - lectures on regulation, corrosion and cathodic protection.

EDUCATION:

Graduate Engineer from the "Institut des Sciences de l'Ingénieur in MONTPELLIER" - Development and Management option (1975).

Various training courses: electricity, corrosion risks, computing in national and industrial offices.

LANGUAGES:

	Spoken	Read	Written
French	Mother tongue	Mother tongue	Mother tongue
English	Good	Good	Good
Spanish	Good	Good	Good
Portuguese		Good	