

# Jean-Yves NUTTINCK

## HYDROGEOLOGICAL ENGINEER

International Consultant,  
Founding Director of Interface-Eau.be



### 23 years of human and technical experience:

- in the implementation of development projects
- in the humanitarian emergency response
- in the promotion of appropriate technologies

within international consulting firms and Médecins Sans Frontières (MSF)



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[www.interface-eau.com](http://www.interface-eau.com)

### Main qualifications

- **Technical project management:**

Management of urban and rural water supply projects.

Management of technical department and budget monitoring Euro 1-5 M.

- **Technical supervision and expertise in:**

- design and supervision of boreholes, excavated wells and spring catchments
- diagnosis of boreholes by camera inspection, data logging, pumping test, water quality
- techniques for the regeneration of dysfunctional boreholes
- long-term aquifer management and protection.

- **Training and coaching:**

Leading and coaching technical training sessions by interactive pedagogical approaches.

Remote support of the trained teams on long-term projects.

Target audience: engineers and technicians within the Ministry of Water, Ministry of Public Health, NGOs and environmental organizations.

- **Impact studies:**

Linking groundwater pollution contexts with their impact on public health.

Defining recommendations such as

- methods for the rehabilitation of groundwater catchment works
- revised design of new structures to construct
- improvement of environmental practices

## Publication & lobbying

Participating in awareness-raising platforms for a paradigm shift when facing dysfunctional boreholes, eg during MSF's Operational Research Day 2017 in Brussels, see:

[https://msf.lu/sites/default/files/slot\\_3-presentation\\_3-borehole\\_diagnrehab-jy\\_nuttinck.pdf](https://msf.lu/sites/default/files/slot_3-presentation_3-borehole_diagnrehab-jy_nuttinck.pdf)

[https://msf.lu/sites/default/files/slot3\\_influencinghealthcare\\_nuttinck.pdf](https://msf.lu/sites/default/files/slot3_influencinghealthcare_nuttinck.pdf)

**Publication** : « *Borehole diagnosis and rehabilitation as alternative to new borehole drilling – the Médecins Sans Frontières approach in rural Niger* », submitted to the PLoS One peer-reviewed journal.

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## Countries of intervention

- Latin America & Caribbean : Nicaragua, Haiti, Venezuela, Ecuador, Brazil
  - Africa : Sierra Leone, Liberia, Guinea, Niger, Burkina Faso, Mozambique, Rwanda, Burundi, Uganda, Zimbabwe
  - Asia & Middle East: Philippines, China, Turkmenistan
  - East Europe and Russia : Ukraine, Chechnya
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## Diploma (M.Sc. equivalent)

**Mining Engineer** – Orientation: **Hydrogeology**.

Polytechnic School of Brussels - Université Libre de Bruxelles (Belgium). Graduated in 1991.

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## Main complementary trainings

- GIS - Geographic Information System (MSF-Operational Center of Geneva, 2016)
  - Training of Trainers : teaching methods and tools for capacity building (MSF, Belgium, 2014)
  - Idées-Eaux : techniques for diagnosis & rehabilitation of dysfunctional boreholes (Burkina Faso, 2013 & 2014)
  - International Office for Water : diagnosis, ageing and rehabilitation of a water borehole (OIEau, France, 2011)
  - Groupe URD (Urgence, Réhabilitation & Développement): Evaluation of the quality in the humanitarian responses (France, 2011)
  - ABEM s.a. and Université Libre de Bruxelles : geophysical prospecting methods (1996)
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## Languages

French: mother tongue  
Spanish and English: good knowledge (spoken and written)  
Portuguese and Dutch: basic knowledge (spoken and written)

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## Computer literacy

Regular use of the Office software, mind mapping (Xmind), interpretation of georeferenced data (QGIS), and software frequently required in hydrogeology.

## Detailed chronology of positions held

**INTERFACE-EAU.be - consulting and engineering firm**, since 2017 - current position

### **Founding Director.**

Firm specializing in groundwater offering expertise on boreholes, their diagnosis and the rehabilitation of dysfunctional groundwater catchment works. It provides support for humanitarian interventions and development projects by training and remote coaching their technical staff: [www.interface-eau.com](http://www.interface-eau.com)

**MEDECINS SANS FRONTIERES-Operational Center of Brussels**, 2010- current position

### **Technical Referent in Water, Hygiene and Sanitation (WASH), based in Brussels.**

- **Technical support and interventions** on regular bases in response to natural disasters and epidemics
- **GO Pro « Groundwater Oriented Project »**, 2017 - Set-up and coaching of an international groundwater intervention team (in progress)
- **REFRESH Concept**, 2012-16 – Set-up of a mobile workshop for the diagnosis and regeneration of dysfunctional boreholes in the Sahel region
- **Training** : regularly leading and coaching technical training sessions (Espace Bruno Corbé, <http://ebc.msf.be/>)
- **Innovation** : development and test of new protocols and kits for interventions
- **Studies and publication:**
  - Niger : study of a fluoride contamination in groundwater by diagnostic techniques, Maradi
  - Zimbabwe : study of the risk factors of cholera and typhoid fever outbreaks related to the hydrogeological and environmental contexts, Harare

**AQUALE sprl.**, 2008 - 2009

### **Hydrogeologist in engineering consultancy firm in Belgium.**

Evaluation of the extension of a **Chromium (VI) industrial pollution** (Italy) and its impact on the superficial and deep aquifers

**Sociétés SHER Ingénieurs-Conseils s.a./ HYDEA s.a.**, 2002 - 2004

### **Director of the Technical Department in Nicaragua.**

PRASNIC project : improving drinking water supply coverage and basic hygiene access at departments level (100.000 beneficiaries, EU funds N<sup>o</sup> NIC/B7-3100/97/414 N<sup>o</sup> NIC/B7-3100/97/414, budget Euro 12 M.).

**SHER Ingénieurs-Conseils s.a.**, 2000 - 2001

### **Project Directeur in Haïti.**

**Construction of 12 boreholes** supplying the water main of the city of PORT-AU-PRINCE (technical budget USD 1 M.).

**MEDECINS SANS FRONTIERES**, 1994 - 2010

### **Project Coordinator in Water, Hygiene and Sanitation (WASH), overseas.**

Regular humanitarian aid missions in the field of **Public Health and Drinking Water Supply** for health structures and populations in precarious situations (10 k to 1 M. beneficiaries, annual technical budget Euro 1 to 5 M.).