

**Ben Geurts**



**Present position**

PFES - Independent Process Consultant

**Personal data**

Last name	Geurts
First name	Ben
Year of birth	1952
Nationality	Dutch
With PFES since	January 2018

**Education**

1976	Bachelor in Chemical Engineering, HTS Heerlen
1981	Course Industrial Surroundings and Safety, HTS - Heerlen
1987	Course Pinch Technology, Geleen
1988	Bachelor in Economics, PUC - Diepenbeek

**Key qualifications**

- Broad and international experience in process industry
- Combined knowledge of technical and economic processes
- Extensive experience in Front End Loading activities such as Project Definition, Concept/Basic Design
- Extensive experience with Fertiliser production processes.

**Professional experience**

2018 – Present	<p><b>SAPPI Biochemtech, The Netherlands</b></p> <ul style="list-style-type: none"> <li>• Process consultant Research and Development</li> </ul> <p><b>Rosier (Borealis), The Netherlands</b></p> <ul style="list-style-type: none"> <li>• Fertiliser Process consultant</li> </ul>
1990 -2017	<p><b>Tebodin , The Netherlands</b></p> <p>Senior Process Consultant and Manager Process Department</p>
2017	<p><b>Rosier (Borealis), The Netherlands</b></p> <ul style="list-style-type: none"> <li>• Concept design exhaust gas treatment system NPK granulation plant</li> </ul>
2016	<p><b>Yara Helsingborg, Sweden</b></p> <ul style="list-style-type: none"> <li>• Concept design modification feed grade Calcium phosphate granulation unit</li> </ul>

**Ben Geurts**

- 2015
- Yara Project Office, Belgium**
- Concept and Basic design waste water system of a NPK plant
  - Test run NPK plant Montoir
- ICL Fertilisers, China**
- Concept design specialty fertiliser project (Non-disclosed)
- 2014
- BRB International, Ittervoort, The Netherlands**
- Project definition production expansion project
- Yara, Montoir, France**
- Process Consultancy NPK granulation line
- ICL Specialty Fertilizers, The Netherlands**
- Feasibility study (Non-Disclosed project)
- 2013
- Vinachem, Vietnam**
- Process Consultancy Services Rock Salt mining project
- OCI Nitrogen**
- Feasibility study (Non-Disclosed project)
- 2012
- Momentive Specialty Chemicals**
- Setup of Basis of Design (Non-Disclosed project)
- DSM Fibre Intermediates**
- Basic design Hydranone Plant
- DSM Fibre Intermediates**
- Basic design of Ammonium sulphate Production Plant
- 2011
- E-Kompany**
- Concept design specialty fertiliser plant
- DSM Fibre Intermediates**
- Concept design of Ammonium sulphate Production Plant
- 2010
- Eastman Chemicals, The Netherlands**
- Feasibility studies storage and ship unloading/loading facilities of highly inflammable materials
- BMW Corporation, Germany**
- Process study manufacturing carbon fibres

**Ben Geurts****DSM Fibre Intermediates**

- Feasibility studies rehabilitation and debottlenecking of Ammonium sulphate Production Plant

**DSM Resins Asia (continued)**

- Concept design grass root resin plant

2009

**RWE Power, Germany**

- Concept study OSBL systems for a Power Plant with integrated Lignite gasification and combined cycle power generator

**DSM Resins Asia**

- Concept design grass root resin plant

**DSM Engineering Plastics Asia Pacific**

- Concept design neutralisation reactor

**Chemelot, Geleen**

- Preparation concept design package heat recovery from Melamine process

**Scotts Europe, Heerlen**

- Concept design pilot line

2008

**Scotts Europe, Heerlen**

- Preparation concept design package for a CRC fertilizer plant

**Jinling DSM Resins, Nanjing, China**

- Concept design debottlenecking resin plant

**DNCC, Nanjing, China**

- Logistic study truck transport on site

2007

**DSM Melamine, Geleen, the Netherlands**

- Scope definition and investment estimate of undisclosed project

**DSM Resins Far East, China**

- Site survey and investment estimate for the debottlenecking of two resin plants in Taiwan and China

**Ben Geurts**

- 2006

**Oleon NV, Oelegem, Belgium**

  - Project Management and Lead Project Engineer for the Conceptual and Basic Design of a grass root production plant of oleo chemicals to be erected in Malaysia
- 2006

**General Electric Plastics, Bergen op Zoom, the Netherlands**

  - Lead Process engineer – Concept Design and Basic Design for the modification of a Polycarbonate plant to a specialty PC plant
- 2005

**DSM Composite Resins, Shanghai, China**

  - Concept Design Sizings plant
- 2004

**Kerr McGee, Krefeld, Germany**

  - Concept Design iron reduction unit for titanium dioxide plant
- 2004

**DSM ACN, Geleen, the Netherlands**

  - Lead Process Engineer - Front End Design Debottlenecking Acrylonitrile plant
- 2003

**PURAC, Gorinchem, the Netherlands**

  - Process design pneumatic transport Lactitol, classification and packing unit
- 2003

**DSM Solutech, Heerlen, the Netherlands**

  - Concept Design of a production line for ultra-strong porous PE foil
- 2002

**DMV Campina, Veghel, the Netherlands**

  - Process optimization sour whey production
- 2002

**DMV International, Norten- Hardenberg, Germany**

  - Lead Engineer - Front End Design and Basic design of a pharmaceutical grade Lactose plant
- Vlisco, Helmond, the Netherlands**

  - Concept design web dryer for tri removal
- Adsoco, Marl, Germany**

  - Concept design of a plant for the production of activated carbon
- DSM Polyethylene, Geelen, the Netherlands**

  - Location study for truck unloading and storage of liquid propane gas
- DSM Solutech, Heerlen, the Netherlands**

  - Concept design of a production plant for special ceramic films
- DSM HPF, Heerlen, the Netherlands**

  - Process consultancy emission reduction of yarn drying furnace

**Ben Geurts**

- 1999-2000
- EdeA v.o.f, Geleen, the Netherlands**
    - Process consultancy several utility projects
  - FSM Europe, Sittard, the Netherlands**
    - Project set-up and process consultancy for the design of a shadow mask line
  - Scotts Europe, Heerlen, the Netherlands**
    - Concept design Specialty Fertiliser line
  - Sachtleben, Germany**
    - Process consultancy for the debottlenecking of a Titanium dioxide plant
  - DneproAzot, Dneprozherzink, Ukraine**
    - Feasibility study for the set-up of a potassium nitrate plant
  - Vinamul, Beek, the Netherlands**
    - Process design spray dryer line
  - DSM Fibre Intermediates (Caprolactam), Geleen, the Netherlands**
    - Several process consultancy activities for increasing the on stream factor of the sulphuric acid plant, hyam-phosphate plant and nitric acid plant
- 1997-1998
- Kisuma B.V., Veendam, the Netherlands**
    - Process coordinator for the Front End Design and Basic Design of a hydrotalcite and magnesium hydroxide plant
- 1995-1998
- Gujarat State Fertiliser Company, Baroda, India**
    - Project management process/economic, environmental and energy audit of a major Fertiliser Production site consisting of 7 production units such as: Ammonia plants, Urea plant, Sulphuric acid plant, DAP-plant and Gypsum conversion plant. The results of these studies were disseminated to all fertiliser producers in India through workshops organized by Fertiliser Association of India
  - Illbruck, Opladen, Germany**
    - Conceptual design for a production plant for a new type of sound silencer
  - DSM HPF, Heerlen, the Netherlands**
    - Co-ordinator detailed process design UHPE fibre plant

**Ben Geurts**

- Mijnen NV, Beringen, Belgium**
- Preliminary design flue gas desulphurization plant
- 1994
- Vinamul, Beek, the Netherlands**
- Front End Process Design spray dryer unit
- Claviag AG, Moosleerau, Switzerland**
- Conceptual design bulk transport polymer powders
- 1993
- BASF NV, Antwerpen, Belgium**
- Preliminary design Catalytic Solvent Abatement System and pilot tests Catalytic Solvent Abatement
- NedCar, Born, the Netherlands**
- Basic design several utility systems for automotive industry
- LB Metrex BV, Heerlen, the Netherlands**
- Basic design flue gas desulphurisation unit and process consultancy for thermal pre-treatment of spent catalyst from refineries
- 1992
- Limox BV, Roermond, the Netherlands**
- Several process studies for the optimization of Litharge production
- White Mineral Products, Maasmechelen, Belgium**
- Process study optimization limestone mill
- Mobil Plastic Europe, Kerkrade, the Netherlands**
- Basic and detail design of utility systems for a Plastic Foil line
- 1991
- Vlisco, Helmond, the Netherlands**
- Basic design tri recovery system
- Rank Xerox Company, Venray, the Netherlands**
- Process consultancy services catalytic solvent abatement system
- Xerox Company, Rochester, USA**
- Project specification catalytic solvent abatement system photoconductor line
- 1990
- Blythe Colours, Maastricht, the Netherlands**
- Optimization cooling system
- Verenigde Glasfabrieken, Maastricht, the Netherlands**
- Revamp cooling water system

**Ben Geurts**

1988-1989

**PDM Engineering**

Manager Process Department

Responsible for process design and process studies for:

- Amoco Chemicals N.V., Geel (Belgium), Vent gas cleaning systems
- Amoco Chemicals N.V., Geel (Belgium), Design scrubber units
- HPF/DSM, Heerlen (Netherlands), Concept and Basic design first Dyneema pilot line
- DCP/DSM, Geleen (Netherlands), Set up knowledge data base for unit operations

1984-1988

**Stamicarbon (DSM)**

Process engineer

Responsible for conceptual and basic design of various fertilizer plants:

- Process design Di-Ammonium Phosphate plant, National Petrochemical Company, Bandar Khomeiny (Iran)
- Process design Low Density Ammonium Nitrate plant, Sasol Fertilisers, Secunda (South Africa)
- Debottlenecking Di-Ammonium Phosphate plant, Kemira Rotterdam
- Debottlenecking study CAN/NPK plant, Sasol Fertilisers, Secunda (South Africa)
- Process design Nitro Phosphate plant, Deepak Fertilisers, Bombay (India)

1981-1984

**Stamicarbon (DSM)**

Commissioning Engineer

- Responsible for instruction and technical assistance of clients during start-up of fertilizer production units. These fertilizers were made from rock phosphate, phosphoric acid, ammonium nitrate or urea

Assignments

- Commissioning Nitro Phosphate plant, Pakarab Fertilisers Multan ( Pakistan)
- Commissioning Calcium Ammonium Nitrate granulation plant, Petrol Chemisches Kombinat, Schwedt (Germany)
- Commissioning of mixed fertilizer granulation plant, Petroleum Fertiliser Industries, Kavala (Greece)
- Commissioning of Di-Ammonium Phosphate granulation plant, Bandirma Gübre Fabrikalari, Bandirma (Turkey)
- Commissioning Triple Super Phosphate granulation plant, Basic Chemical Industries Corporation, Chittagong (Bangladesh)
- Commissioning Urea plant, National Petrochemical Company, Marsa-el-Brega (Libya)

1979-1980

**Province of South-Holland, the Netherlands**

Adviser on safety matters

- Various studies concerning safety aspects related to the planning of locations for industrial activities



**Ben Geurts**

1977-1979

**TNO Prince Maurits Laboratories, the Netherlands**

Research employee

- Various studies for the Ministry of Defense relating to safe storage of explosive and inflammable materials

**Languages**

	Speaking	Reading	Writing
<b>English</b>	2	2	2
<b>Dutch</b>	1	1	1
<b>German</b>	2	2	2
<b>French</b>	3	3	3
<b>Spanish</b>	3	3	3

**Scale:** 1. mother tongue | 2. good | 3. working knowledge