

Michael Thomann

Date of birth 9. February 1969
Nationality Swiss
Function Lecturer and group leader
environmental and water technology



Professional experience

02/20 to present **University of Applied Sciences and Arts FHNW, School of Life Sciences, Muttenz, Switzerland**
Professor for environmental and water technology
09/05 – 12/19 **HOLINGER AG, Liestal, Switzerland**
Head wastewater technology
Deputy head branch Liestal
10/02 – 07/05 **BMG Engineering AG, Schlieren, Switzerland**
Project leader industrial wastewater treatment
01/97 – 09/02 **EAWAG, Dübendorf, Switzerland**
Research department “Process engineering” Prof. Dr. W. Gujer, Dr. sc. techn. ETH
05/94 – 07/96 **ETH, Zurich, Switzerland**
Scientific assistant Institute of Environmental Engineering, Prof. Dr. W. Gujer

Education

2002 Dr. sc. techn., ETH Zurich, Switzerland
1994 Dipl. Civil Eng., ETH Zurich, Switzerland
1988 Matura D, Holbein-Gymnasium, Basel

Professional experience – Full-scale wastewater processes for the elimination of micropollutants

2014 – 2018 **ERZ, Wastewater treatment plant WWTP Zürich-Werdhölzli, Switzerland**
Overall project manager + project manager process technology, process unit for the elimination of organic micropollutants with ozonation + sand filtration
2013 – 2019 **Wastewater treatment plant WWTP Altenrhein, Thal, Switzerland**
Overall project manager and project manager process technology, process unit for the elimination of organic micropollutants with an ozonation and a filtration with granular activated carbon
2011 – 2014 **Wastewater treatment plant WWTP Neugut, Dübendorf, Switzerland**
Overall project manager + project manager process technology, first full-scale ozonation for the elimination of organic micropollutants in Switzerland
2017 – 2019 **Wastewater treatment plant WWTP Flos, Wetzikon, Switzerland**
Overall project manager + project manager process technology, process unit for the elimination of organic micropollutants with direct dosage of powdered activated carbon in an activated sludge system

Professional experience – Industrial wastewater treatment and offgas treatment

2011 – 2019 **Wastewater treatment plant ARA Rhein AG, Pratteln, Switzerland**
Overall project manager + project manager process technology, flotation, upgrade sludge treatment

- 2017 – 2019 **DSM Nutritional Products, Sisseln, Switzerland**
Project manager, feasibility study aerobic und anaerobic industrial upgrade of the wastewater treatment plant and offgas treatment, pilot plant study of a high-rate nitrification in a moving bed reactor
- 2017 – 2019 **Roche Diagnostic International, Rotkreuz, Switzerland**
Project manager, feasibility study ozonation and filtration with granular activated carbon pharmaceutical wastewater, mass-flow model for effluent concentration prediction, lab tests for ozonation, fenton's reagent and activated carbon adsorption
- 2005 – 2012 **Wastewater treatment plant WWTP Hesperingen, Luxembourg**
Project manager process technology, nitrifying+denitrifying moving bed reactor, anaerobic mesophilic sludge treatment, offgas treatment

Professional experience – R&D-pilot projects for the elimination of micropollutants in WWTP

- 2016 – 2019 **Wastewater treatment plant WWTP Altenrhein, Thal, Switzerland - Pilotplant**
Project manager, semi-industrial pilot plant ozonation and filtration with granular activated carbon, R&D-collaboration of HOLINGER with EAWAG (ecotoxicology) und FHNW (EU-project nextGen)
- 2014 – 2016 **Wastewater treatment plant WWTP Neugut, Dübendorf - Pilotplant**
Project manager, semi-industrial pilot plant ozonation and filtration with granular activated carbon and biological moving bed reactor, project "RETREAT", R&D-collaboration of HOLINGER with EAWAG and WWTP Neugut
- 2012 – 2015 **Wastewater treatment plant WWTP Flos, Wetzikon - Pilotplant**
Project manager, full-scale pilot plant for powder activated carbon dosage into an activated sludge system, project "PAK im Belebtschlammssystem" funded by FOEN (Federal office for the environment) R&D-collaboration of HOLINGER with HSR (Hochschule Rapperswil)
- 2013 – 2015 **Wastewater treatment plant WWTP Ergolz 1, Sissach - Pilotplant**
Project manager, realisation of a full-scale pilot plant for dosage of powdered activated carbon in an existing sand filtration, project „Aktifilt“, R&D collaboration of HOLINGER with AIB (Amt für industrielle Betriebe), FHNW and EAWAG
- 2008 – 2010 **Wastewater treatment plant WWTP Vidy, Lausanne - Pilotplant**
Project manager, realisation of three full-scale pilot plants – biological treatment with moving bed reactor, ozonation and ultrafiltration with powdered activated carbon adsorption, project „Micropoll“ funded by FOEN (Federal office for the environment), R&D collaboration of HOLINGER with STEP de Vidy, EPFL, EAWAG and Triform
- 2008 – 2009 **Enhanced hospital wastewater treatment, Kantonsspital Baden - Pilotplant**
Project manager, semi-industrial pilot plant, membrane bioreactor (MBR) for the enhanced treatment of hospital wastewater, EU-Project „Pills“, R&D collaboration of HOLIN with EAWAG and Kantonsspital Baden

Professional experience – expert studies

- 2020 **Technical guideline (VSA, Glattbrugg) – Analytikdaten in ARA**
Project manager, expert study, guideline for data quality control and uncertainty analysis for wastewater treatment plant data
- 2018 **FOEN (Federal office for the environment), Bern**
Project manager, expert study, development of a new infrastructure cost model for the realization of the elimination of micropollutants in Swiss wastewater treatment plants
- 2015 **Technical guideline (VSA, Glattbrugg) - Empfehlung Dimensionierungswassermenge und Redundanzen von Stufen zur Elimination von Mikroverunreinigungen**
Project manager, expert study, Design guideline for upgrade of wastewater treatment plants with organic micropollutant elimination processes
- 2012 **FOEN (Federal office for the environment), Bern**
Expert, review of the project report DIMES (Diffuse emissions of micropollutants from settlements)

Commissions

IWA	Member International Water Association
VSA	Member VSA-Plattform „Mikropoll“ Lectures “Anaerobe Schlammbehandlung” in VSA-education since 2011 (Verband Schweizer Abwasserfachleute)

Languages

German	Mother tongue
English	Fluently, CAE
French	Intermediate
Spanish	Intermediate

IT Knowledge

MS-Office	Word, Excel, Powerpoint
Simulation	AQUASIM, ASIM, Matlab, Simulink
Various Software	S-Plus, LATEX, Matlab Statistic Toolbox