

## **Siegrist Hansruedi**

Dr. sc. nat., ETH Zurich

Born: 29 December 1948 in Zurich

Citizen of Zurich, Switzerland

Married with: Regula Siegrist (29.1.1954)

Children: Martin (1981) and Barbara (1984)

Languages: German (native language), English, French

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### **Education**

1985: Ph.D. in Process Engineering at ETH Zurich, Prof. Dr. W. Stumm  
1981: Post diploma in Sanitary Engineering at EAWAG/ETH Zurich  
1980: Diploma in Chemistry at ETH Zurich  
1971: Diploma in Civil Engineering, Zurich University of Applied Sciences Winterthur (ZHW)

### **Work Experiences**

1997-today: Head of the Environmental Engineering Division at EAWAG  
1989-today: Lecturer at ETH Zurich for Environmental Engineering and Chemistry since 2002 Professor at ETH Zürich  
2001/02 Sabbatical at the University of Queensland, Brisbane, Australia  
1986-1997: Research Associate at the Engineering Division of EAWAG  
1985-1986: Research Associate at the Department of Civil Engineering, Stanford University, USA  
1981-1985: Teaching assistant for process engineering at EAWAG  
1979-1982: Head of an international student house in Zurich together with my wife Regula  
1973-1975: Civil Engineer in the engineering office G. Caprez in Zürich in urban hydraulic and building construction  
1971-1972: Civil Engineer in the Compagnie d'étude de travaux public in Lausanne in urban hydraulics

My research activities are mainly in aerobic and anaerobic wastewater and sludge treatment (process engineering, design, modeling, instrumentation and control). For several years I am investigating the fate of micropollutants in wastewater treatment and potential measure to reduce them in the receiving water.

### **Membership**

- International Water Association (IWA) , London
- Abwassertechnische Vereinigung Deutschland (ATV, German association of sanitary engineers)
- Verein Schweizerischer Abwasser- und Gewässerschutzfachleute (VSA, Swiss association of sanitary engineers)

### **Reviewer of the following international scientific journals**

- Water Research (associate editor)
- Water Science and Technology
- Environmental Science & Technology (ES&T)
- Biotechnology and Bioengineering

## **Member in Commissions and Working groups**

- Coordinator of EU Project NEPTUNE, [http://www.eu-neptune.org/index\\_EN](http://www.eu-neptune.org/index_EN), 2006-2010.
- VSA-Commission “Wastewater treatment plant: management, operation, process optimization and education”, 2007-today
- DWA task group (Germany, DWA KA 8.1) Anthropogenic substances in the water cycle - Pharmaka and Endocrine disruptor, 2003-today
- IWA task group for mathematical modeling of anaerobic processes, 1998-2004
- VSA-Commission “Measuring technique in urban hydraulics and wastewater treatment”, 1998-today
- VSA-Commission “Optimization of urban water management”, 1992-2000
- Working group for “Optimal operation of the wastewater treatment plants of the City of Zurich”, 1992-today

## **Adviser of PhD students**

- Recensement et évaluation du métabolisme anthropique sur la base des boues d'épuration (sewage sludge as indicator for anthropological activity), George Chassot, ETH Zurich, 1991-1995.
- Nutrient fluxes in wastewater treatment plants with enhanced biological P-removal, Daniel Wild, ETH Zurich, 1993-1997
- Electromagnetic water treatment in drinking water supply and sewage sludge treatment, Regula Müller, ETH Zurich, 1994-1998.
- Micro-aerobic pretreatment of organic solid waste, Adriano Joss, ETH Zurich, 1996-1999.
- Biological nitrogen removal from digester supernatant with the nitrification/anammox process, Christian Fux, ETH Zurich, 1998 - January 2003.
- Aeration control in activated sludge systems, Leiv Rieger, ETH Zurich, 1999-2004
- Characterization, Modeling and Controlling of activated sludge foaming, Thomas Hug, ETH Zurich, 2000-2005
- Comparison of population dynamics and kinetics of nitrifying micro-organism in conventional activated sludge treatment and membrane plants, Reto Manser, ETH Zürich, 2001-05
- Membrane bioreactor technology for treatment and reuse of domestic wastewater in a private house, Christian Abegglen, ETH Zürich, 2004-2008.

## **Academic honors**

- Otto Jaag Water protection price, 1985, for the doctoral thesis “Stofftransport in festsitzender Biomasse (Mass transfer in Biofilms), Diss. ETH Zürich, No. 7726
- Research scholarship of the Swiss national foundation for a postdoctoral stay at the University of Stanford, USA, 1985/86
- IAWQ Pergamon Publications Medal for Outstanding Publication Contribution, 1996 together with D. Wild and A. Kisliakova for the congress publication “P-Fixation by Mg, Ca and Zeolite A during stabilization of excess sludge from enhanced biological P-removal“.
- Professor at ETH Zürich, Division BAUG (Civil Engineering)
- Mühlheim Water Award 2006, for Europe's highest sewage treatment plant with water reuse for toilet flushing, together with Adriano Joss, Marc Böhler, Simone Buetzer and terraLink GmbH.