

Curriculum Vitae

January 2026

Employment

Dezember 2025 – present

- Adaptation of own private company (sole proprietorship) including a new business unit for sustainability coaching using the specific coaching methodology ZRM (Zurich Resource Model); new commercial registry 'Semadeni Umwelt & Nachhaltigkeit'.

August 2022 – present

- Establishing own private company (sole proprietorship) in the consulting areas "sustainability, environment and energy"; commercial registry 'Semadeni Environmental Consulting'.

September 2022 – December 2023

- Environmental management coaching mandate through Adecco (job placement firm) at Syngenta Crop Protection AG for managing projects handover and successor induction to take over the environmental liabilities manager position.

January 2015 – July 2022

- Chairman (in rotation) of the technical working group PGUA (2015 and 2016) and representing Syngenta Crop Protection AG in this technical working group. PGUA ('Policy Group' für Umwelt und Altlasten) is a "Basel Chemical Industry" (BCI)-internal assembly/group concerned with environmental and remediation affairs impacting the chemical industry around Basel and in Switzerland. The technical group consists of 8 senior remediation officers representing the different BCI-companies.

November 2008 – July 2022

- Vice president of the remediation company 'bci Betriebs-AG' established by the Basel Chemical Industry (BCI) for managing the remediation of the hazardous landfill Bonfol, Basel, Switzerland (the board consists of representatives of 8 BCI companies plus the board president). The company bci Betriebs-AG consist of executive officers, coworkers, and assistants (the organization has been slimmed down after the major remediation had been completed in 2017).

October 2007 – July 2022

- Environmental Affairs and Liabilities Manager at Syngenta Crop Protection AG, Basel, Switzerland Head of environmental liabilities Switzerland and France
- Chairman of the BCI Teuftal board representing Syngenta Crop Protection AG (BCI Teuftal is a 'simple company' ('Einfache Gesellschaft') of the „Basel Chemical Industry“ (BCI) concerned with the after-care of a hazardous landfill. Syngenta holds the business lead. The board consists of representatives of 7 BCI companies).
- Business manager of the organization BCI Teuftal, „Sondermülldeponie Teuftal der Basler Chemischen Industrie (BCI)“ managing the after-care of the confined hazardous landfill in Mühleberg, Bern, Switzerland. Project lead through a consulting company with 5 regular coworkers and extended staff (if needed).

October 2005 – October 2007

- Project leader, technical expert and 'Environmental group' leader at CSD Ingenieure und Geologen AG, Liebefeld, Bern, Switzerland.

February 2005 - December 2006

- Self-employed with the sole proprietorship company "Energy and Environment Consultant Dr. M. Semadeni", Birmensdorf, Switzerland.

January 2004 - February 2005

- Energy risk analyst, product manager and business development support in energy risk management at 'Time-steps GmbH', Affoltern a.A, Switzerland. Responsible for the development of energy-related business section together with the team.

November 2000 - December 2003

- Research professional at the Centre for Energy Policy and Economics (CEPE), Department of Mechanical and Process Engineering, Swiss Federal Institute of Technology (ETH Zurich), Switzerland.
- Lecturer and deputy of professor/group leader (supervisor) as assistant professor: 5 co-workers (all PhD students), 2 office administrators, 1 deputy of the departmental IT support team.

November 1997 - November 2000

- Research professional at the Natural and Social Science Interface (UNS), Department of Environmental Sciences, ETH-Zurich, Switzerland.
- Lecturer and manager of "contaminated site management" group.

January 1997 - November 1997

- Research consultant at Analytical Support R&D, Bear Instruments Inc., Santa Clara, USA. Testing and evaluation of Quadrupole Mass Spectrometer GC-MS-MS system including data acquisition software.

March 1995 - November 1997

- Research assistant and at the Stanford Environmental Engineering Program (SEEP) and postdoctoral research, Department of Civil and Environmental Engineering, Stanford University, Stanford, USA.

November 1994 - February 1995

- Preparation of research proposal for the Swiss Science Foundations (SNF) and successful application of junior research grant. Preparations for moving to California, USA with my family.

January 1990 - November 1994

- Teaching assistant at the Department of Environmental Sciences, ETH Zurich, Switzerland.

October 1989 - January 1990

- Teaching assistant at the Department of Life Sciences (Biochemistry & Molecular Biology), ETH-Zurich, Switzerland.

Project Work

Semadeni Environmental Consulting, Birmensdorf: Sole proprietorship

March 2025 – December 2025

- ZRM-Einzelcoaching online, Thema «Berufung finden, Job der Spass macht, Stärken einsetzen können», 5 Sessions, March-April 2025
- ZRM-Einzelcoaching physisch, Thema «Weniger Reaktives, mehr Richtung finden in privater und beruflicher Hinsicht», 3 Sessions, June – July 2025

- ZRM-Einzelcoaching physisch, Thema «Selbständigkeit und Einkommen, Geschäftsmodell entwickeln, Arbeit und Ausbildung ermöglichen/vermitteln, nachhaltig und ressourcenschonend», 3 Sessions, August-September 2025

Note: The ZRM coaching methodology attempts to use motivational effects through the psychological attitude level on the outcome at the behavioral level.

March 2023 – April 2023

- Re-evaluation of a baseline-investigation study (at a contaminated industrial site) and corresponding recommendations for an industrial client regarding their facility at the industrial site 'Schweizerhalle Ost', Muttenz, Switzerland.
The aim was to check the extent to which the investigation work, results and conclusions are plausible and comprehensible. This required a technical review of the submitted consultancy report including the annexes. The review has been written in the sense of a second opinion.

Syngenta Crop Protection AG, Basel: Environmental affairs and liability manager

November 2007 – July 2022

- Environmental liability manager in cooperation with a „third party“ firm (site owner) concerning investigations, risk assessments and monitoring measures of the contaminated accident site „Schweizerhalle“, Muttenz, Switzerland (Project “SABO”). Environmental provision account holder and corresponding half-yearly reviews.
Project team consisted of consultancy, 1 site/facility manager reporting to „third party“ firm.

November 2007– July 2022

- Environmental liability manager regarding contaminates sites at and around the Syngenta Dielsdorf site near Zürich, Switzerland, including investigations, risk assessments, monitoring and remediation of the site's areas. Environmental provision account holder and corresponding half-yearly reviews.
Project team consisted of consultancy and site/facility manager.

November 2007 – December 2021

- Project advisor regarding several site redevelopment and sales projects of periphery properties at the Dielsdorf site near Zürich, Switzerland (after Syngenta re-dimensioned the site between 2007-2009). Finally, the last part of the site (core area) has been sold in 2021.

November 2007 – December 2020

- Environmental liability manager in cooperation with a “shared site” firm concerning the remedial measures / monitoring of the production site Schweizerhalle (Syngenta left this site in 2008). Environmental provision account holder and corresponding half-yearly reviews.
After many years Syngenta rejoined the site in 2019 through an acquisition of a production building. Project lead with the „shared site“ firm and consultancy / regular reports to the environmental liability managers of both firms.

January 2008 – December 2009

- Project manager of an US consultancy project concerning site specific GIS data integration for the development of a Conceptual Site Model of a Swiss landfill including subsurface hydrogeology and contaminant transport. The aim was to discuss the relationship between the site contaminants and risk pathways in relation to remediation options using a multi-criteria Decision Consequence Analysis (DCA), taking into account regulatory expectations, risks, compliance, future land use, carbon footprint and nuisance categories.
Project team consisting of 4 US consultants / reporting to environmental liability manager Syngenta.

January 2010 – July 2022

- Environmental liability manager at senior management level in cooperation with BASF

concerning all contaminated sites at and around the Syngenta production site in Monthey including investigations, risk assessments, monitoring and remediation of contaminated sites and several landfill sites, old wastewater discharge system units (old canalization, discharge channels, old settling cones and ponds), and several contaminated sites from old production activities; all in all about 19 different projects.

Environmental provision account holder and corresponding half-yearly reviews. In addition, advising Syngenta Monthey SA on contamination aspects related to the site's redevelopment and/or investment projects (e.g. the 'Terminal' project).

Project team consisting of 3-5 project leaders and 1 project manager of CIMO SA (on-site provider/site operator firm) including a consultancy project team / reporting to the 2 representatives each of BASF and Syngenta (senior remediation managers) and in turn to BASF/Syngenta steering committee.

January 2014 – December 2019

- Project advisor regarding possible contaminated buildings and/or property on Syngenta's agricultural test sites in Switzerland in view of site reinvestments, redevelopments and/or sales projects.

January 2017 – December 2021

- Environmental liability manager at senior management level of all environmental liability issues at Syngenta sites in France (investigations, risk assessments, monitoring and remediation measures of contaminated sites and landfill sites). Environmental provision account holder and corresponding half-yearly reviews.
Project team: project lead through consultancy and site-specific HSE management including site managers.

January 2019 – December 2021

- Project manager and advisor concerning environmental due diligence related to the purchase of a production building at the 'shared site' Schweizerhalle.
Internal and external project teams, 'shared site' managers and consultancies, environmental managers.

Basel Chemical Industry (BCI): Representing Syngenta Crop Protection AG

November 2007 – July 2022

- Business manager BCI Teuftal, „Sondermülldeponie Teuftal der Basel Chemischen Industrie (BCI)“ after care of a hazardous landfill, Mühleberg, Bern, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
Project team consisting of several consultants / reporting to BCI Teuftal (business lead with Syngenta Crop Protection AG, the board consists of representatives of 7 BCI companies).

November 2007 – July 2022

- Syngenta representative in the project management team of the remediation organization GIDRB (group d'intérêt des décharges regional Bale) concerning the investigation and remediation project Le Letten in Hangental-Le-Bas, Alsace France. The remediation works were finalized in 2012, aftercare / monitoring is on-going for several years. Environmental provision account holder and corresponding half-yearly reviews.
Project lead with other BCI firm / reporting to GIDRB.

November 2007 – July 2022

- Syngenta representative in the project management team of the remediation organization GIDRB (group d'intérêt des décharges regional Bale) concerning the investigation and remediation project Roemisloch in Neuwiler, Alsace, France. The remediation works were finalized in 2012, aftercare / monitoring is ongoing for several years. Environmental provision account holder and corresponding half-yearly reviews. Project lead with other BCI firm / reporting to GIDRB.

November 2007 – December 2015

- Syngenta representative in the technical advisory team guiding the project management team “Konsortium Feldreben” regarding the remediation of the municipal landfill Feldreben in Muttenz, Basel, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
Project management team consists of the secretary of the steering committee, a business manager (consultant) including one assistant and a representative each of Canton BL and the Basel Chemical Industry BCI, and a communicator. The lead laid with the canton BL / reporting to the steering committee and cantonal government. The steering committee consisted of representatives of the two cantons BL and BS, representatives of three BCI firms, and representatives of municipal, city and small stakeholders.

November 2007 – July 2022

- Syngenta representative in the project management team “Rothausstrasse” regarding investigation and monitoring of the municipal landfill Rothausstrasse in Muttenz, Basel, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
Project management team consists of the landfill site owner, the project leader (consultant), representatives of three BCI firms and representatives of municipal, city and small stakeholders. The project lead has the landfill site owner / reporting to the steering committee. The steering committee consist of representatives of the two cantons BL and BS, representatives of three BCI firms, and representatives of municipal, city and small stakeholders.

November 2007 – July 2022

- Technical advisor of Syngenta’s representative in the “Konsortiale Kölliken” concerning the remediation of the hazardous landfill in Kölliken, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
Project management through the remediation organization SMDK / reporting to the “Konsortiale Kölliken” (steering) consisting of representatives of the cantons AG and ZH and two representatives of BCI.

January 2008 – July 2022

- Syngenta representative at steering level in cooperation with other BCI firms regarding the remediation of the hazardous landfill in Bonfol, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
Project management through the remediation company bci Betriebs-AG established by the Basel Chemical Industry BCI (lead through other BCI firm) / reporting to the board (project steering).

January 2010 – December 2017

- Syngenta representative in the project management team for the contaminated site project Lippgrube in Weil-am Rhein, Deutschland. Environmental provision account holder and corresponding half-yearly reviews.
Project leadership team consisting of representative Landesamt Lörrach and a consultancy / reporting to Landesamt Lörrach and representatives of 3 BCI firms. Project closure 2017.

January 2012 – December 2016

- Syngenta representative and project manager regarding investigation, risk assessments, monitoring and voluntary in-situ measures concerning the contaminated accident site „Schweizerhalle“, Muttenz, Switzerland. Environmental provision account holder and corresponding half-yearly reviews (as part of ‘Project SABO’).
Consultancy project team, site/facility manager of site owner, 3 representatives of BCI.

January 2014 - December 2015

- Syngenta representative in the technical cooperation between two BCI firms concerning a study for implementing the Swiss groundwater protection ordinance related to landfills.
Project team; consultancy, 2 BCI representatives and 1 environmental manager.

January 2016 – July 2022

- Syngenta representative in the technical advisory team guiding the project management team “Konsortium Feldreben” regarding the remediation of the municipal landfill Feldreben in Muttenz, Basel, Switzerland. Environmental provision account holder and corresponding half-yearly reviews.
The organization has been dissolved after claims against the remediation decree have been placed by an adjacent community and other stakeholders. The dispute and legal process was still ongoing 2021/22, while solutions/agreements have been achieved in 2023 between the different stakeholders.

CSD Ingenieure und Geologen AG (CSD AG), Bern: Group and project leader*2005 – 2007*

- Re-evaluation of hazardous incidents and after care actions of three landfill sites in the canton of Solothurn, Amt für Umwelt des Kt. Solothurn.
- Environmental impact assessment reporting (Umweltverträglichkeitsbericht) of a gravel pit and landfill site for inert materials at Dieboldsbach, Inerstoffdeponie Eggwil, Wyss AG.
- Consulting mandate for the implementation of strategic controlling procedures in the area of mineral oil storage tanks at armasuisse Immobilien AG (conformity of storage tanks), armasuisse Immobilien AG.
- Supporting the risk assessment procedures of the chemical landfill Teuftal (SMDT) including planning of monitoring, environmental toxicology and evaluations, ‘Sondermülldeponie Teuftal der Basler Chemischen Industrie (BCI)’.

Energy and Environment Consultant Dr. M. Semadeni, Birmensdorf: Sole proprietorship*2005 – 2006*

- Evaluation of the research project application “prevention of self-ignition during storage of biomass fuels” of Prof. Dr. Mehri Sanati, Bioenergy Technology-Chemistry, School of Technology and Design, Växjö University, for the Knowledge Foundation, Högskolan Väst (University West), Sweden.
- Project management of the evaluation of the Swiss Federal Research Program «Solar Chemistry / Hydrogen», mandated by the Swiss Federal Office for Energy (BfE), Bern.

Times Steps GmbH, Affoltern a.A.: Product manager*2004*

- Valuation of the „true value“ of various hydropower plants in Switzerland and Austria using the software packet „TS Hydropower“.

ETH-Zurich: Professional researcher*2003*

- “Risk and Novelty in Energy Scenarios”, SERF 3 (socio-economic research on fusion), „Fusion and the Public Opinion”; European Fusion Development Agreement (EFDA), EURATOM.

2002

- “Steps towards a 2000 Watt–Society: Developing a White Paper on Research & Development of Energy-Efficient Technologies”; novatlantis, Dubendorf.
- “Risk and Novelty in the Cadarache Focus Group Study” in cooperation with SCK-CEN (Belgian Nuclear Research Center) and IPSN (Institut de Protection et de Sûreté Nucléaire, France); ‘European Fusion Development Agreement (EFDA), EURATOM.

2001

- “Improvement of the Competitiveness of Swiss Hydroelectric Power Plants”, Swiss Federal

Office of Energy, Federal Office for Water and Geology, Interest group for waterpower (Interessengemeinschaft für Wasserkraft).

1998 – 2000

- “Waste and contaminated site management”; Amt für Abfall, Wasser, Energie und Luft (AWEL), Zurich
- 'Integral evaluation of gentle soil remediation technologies'; 'SPPU IP Boden' project (SNF program), Zurich
- “Contaminated site management” of the Swiss railway company SBB AG, Zurich. (The study was initiated to provide the scientific basis for the development of a risk assessment tool).

Stanford University USA: Post doctorate in environmental chemistry (Department of Civil and Environmental Engineering)

1995 – 1997

- “Behavior and Fate of Organic Contaminants During Groundwater Recharge with Reclaimed Waste Water and Santa Ana River Water”; Orange County Water District (OCWD), Fountain Valley, California, USA.
- Dehalogenation of Halo-aliphatic Hydrocarbon Compounds in the Aquatic and Terrestrial Environment”, Stanford University, Department of Civil and Environmental Engineering, Stanford, USA.

Additional Working Experience

Environment, Climate Change, Energy, Sustainability, Safety

2023 – 2024: Memberships of ‘Semadeni Environmental Consulting’

- Member of Energie-cluster ‘Netzwerk für eine CO₂-neutrale Schweiz’; network for a CO₂-neutral Switzerland’, Bern, Switzerland.
- Member of Eco Swiss ‘Umweltschutz, Arbeitssicherheit, Gesundheitsschutz’; Swiss association for environmental protection, occupational safety, health protection; Zurich, Switzerland.
- Member of ETH Alumni Vereinigung ‘weltweites, akademisches Netzwerk von ETH-Alumnae und -Alumni mit 64 Mitgliederorganisationen’; academic association of ETH alumnae and alumni organized as a worldwide network with 64 member organizations’; Zurich, Switzerland.

2018 – 2022: Syngenta membership at the Swiss norming association SNV (Schweizerische Normen-Vereinigung) as part of the International Organization for Standardization ISO (SNV/ISO)

- The ISO committee INB/NK 174 ‘Environment & Sustainability’ (environmental management standards) consist of several technical subcommittees, of which three are concerned with ‘sustainable finance’ (TC 322), ‘circular economy’ (TC 323) and ‘biodiversity’ (TC 331).
Function: Representative of Syngenta in SNV/ISO committee INB/NK 174 and in the subcommittees TC322, TC323, TC 331 given feedback about the development status of new standards to and from several Syngenta departments (Finance, Sustainability, HSE).

2012 – 2022: Implementation of Swiss CO₂ law “Kyoto phase II”, “Paris Agreement” and transition period after 2020

- Function: Advice/support site management and manage implementation at site engineering level of Swiss CO₂ law and ordinance, and CO₂ tax exemption measures (target agreements, cap & trade CH ETS) including management of CO₂ issues and finance.

2012 – 2022: ‘Industriegruppe Wallis’ has been established in 2012 for contaminated site managers of companies located in the canton of Valais.

- The group ‘Industriegruppe Wallis’ has been meeting regularly (2 times a year) to exchange

information and experiences on contaminated site and remediation projects, and on regulatory issues, etc.

Function: Representative of Syngenta in the group; technical and management expertise for contaminated site management, remediation projects and regulatory aspects.

2012 – 2017: Syngenta membership at NICOLE (Network for Industrially Contaminated Land in Europe)

- The European organization consisted of a main industry working group and several subgroups (e.g. regulations, sustainable remediation).

Function: Representative of Syngenta in the main industry group, and the technical subgroups 'regulation & policy' providing expertise for contaminated site management, remediation projects and regulatory aspects.

2010 – 2013: BCI Energy-Platform of the Basel Chemical Industry (BCI)

- BCI Energy-Platform is an information exchange platform organizing regular meetings of the energy managers and site engineers of different BCI firms. The platform has been dissolved in 2013 because the BCI firms are now part of the Swiss industrial energy agency EnAW (Gruppe Chemie).

Function: Representative of Syngenta in the meeting, technical input related to CO2 law and energy efficiency.

2008 – 2012: Implementation of Swiss CO2 law "Kyoto phase I"

- Function: Advice/support of site management and at site engineering level regarding Swiss CO2 law and ordinance, and CO2 tax exemption measures.

2007 – 2022: Policy Group 'Umwelt und Altlasten' (PGUA) of BCI

- The PGUA is a strategy group of the Basel Chemical Industry (BCI) at the senior management level concerned with coherent politics between the BCI companies and the authorities in environment and contaminated site management. It has been restructured in 2009 establishing three working groups providing legal, political and technical expertise to the strategy group PGUA.

Function: Representative of Syngenta in the technical working group 'PGUA Tech' and corresponding meetings for exchanging information of project status and issues with BCI colleagues; technical and management expertise for contaminated site management, remediation projects and regulatory aspects of it, and for projects in applied research and environmental analytics supported by BCI. Syngenta was holding the Chair of PGUA Tech in 2015 and 2016.

2007 – 2022: 'Scienceindustries' (alias SGCI, the Swiss association of the pharmaceutical and chemical industry), Core Group UST ('Umwelt-Sicherheit-Technologie')

- 'Scienceindustries' core group UST is focusing on regulatory aspects, issues and topics in the area of environment, safety and technology in Switzerland and Europe. The group consists of HSE representatives from member firms.

Function: Representative of Syngenta in the core group UST and several working groups (until 2020); participating in several ad-hoc working groups in the area of Swiss safety ordinance, responsible care, contaminated sites and waste management, water protection, climate change, CO2 compliance and energy efficiency (since 2021 remaining only in the working group 'Energy&CO2').

2004 – 2006: Additional international memberships

- Member of Society of Environmental Toxicology and Chemistry (SETAC), Brussels, Belgium.
- Member of Open Business Club GmbH, Hamburg, Germany.

1995 – 2003: Additional international memberships

- Member of International Association for Energy Economics (IAEE), Cleveland, Ohio, USA.
- Member of the Association of University Departments of Environmental Sciences in Europe (auDes), Dechema, Utrecht, Germany.
- Member of American Chemical Society (ACS), Division of Environmental Chemistry, Washington, USA.

Consulting

2004: Time-steps GmbH, Affoltern am Albis (Zurich), Switzerland

- Energy consulting activities and participation at software application developments (conceptual) for the electricity market.

2000: Natural and Social Science Interface (UNS), Department of Environmental Sciences, ETH-Zurich, Switzerland

- Planning support at the 'Bahn Umwelt Center', Swiss Railway AG, Bern, Switzerland, by development of a concept for a risk evaluation tool for contaminated sites.

1997: Bear Instruments Inc., Santa Clara, California, USA

- Analytical support of R&D by application and evaluation of the CUB 800 Quadrupole Mass Spectrometer Benchtop GC-MS-MS system including data acquisition software package.

Informatics

2004: Time-steps GmbH, Affoltern am Albis (Zurich), Switzerland

- Software testing of applications (TS-Hydropower, TS-Energy, TS-Credit) and editing / translation of corresponding documents, manuals in English and German. Limited administration of Windows 2000 and xp, other applications; MS-Office (Word, Excel, PowerPoint, Outlook, Access,) MSProject, Dreamweaver for websites.

2001 – 2002: Centre for Energy Policy and Economics (CEPE), Department of Mechanical and Process Engineering, Swiss Federal Institute of Technology (ETH Zurich), Switzerland.

- Deputy of CEPE Informatics; maintenance support of CEPE website, managing CEPE informatics support based on the professional Informatics Support Group of the department MAVT, ETHZ.
Limited administration (local) of Windows 2000, xp, applications; MS Office (Word, Excel, PowerPoint, Outlook) & EndNote, Acrobat, SAS, Atlas.ti, SysStat, Dreamweaver for websites).

1995 – 1997: Stanford Environmental Engineering Program (SEEP) and postdoctoral research, Department of Civil and Environmental Engineering, Stanford University, Stanford, USA

- Participation in the local informatics support of the SEEP Macintosh-network (system-software hardware) at the environmental engineering group; organization of web pages; application und limited administration (local) of Macintosh OS 8.6.
Applications; MS Office (Word, Excel, PowerPoint) & EndNote, Eudora, Internet (HTML-Editor Adobe PageMill for webpages), Scientist (MicroMath), Mathematica, Stella Research, StatView).

Product Management

2004: Time-steps GmbH, Affoltern am Albis (Zurich), Switzerland

- Customer relationship development and customer support for the sale of Time-steps hydropower evaluation software package TS Hydropower 2.0.2. to 2.1.0.
Market screening regarding Swiss, Austrian and German energy producers with portfolios of significant hydropower production assets, and activities in trading of electricity and/or natural

gas.

Project acquisition in the energy business to extend or develop software applications for the electricity and gas market.

Concepts for software application development for the valuation of extended electricity systems and for the gas business.

Business Development Support

2004: Time-steps GmbH, Affoltern am Albis (Zurich), Switzerland

- Strategic concepts for business development and marketing.
Support of customer to business and business to business relationships to increase the chance of sales or project acquisition.
Assist collaboration development with other software development / engineering / consulting companies active in the energy field.

2005: Energy and Environment Consultant Dr. M. Semadeni, Birmensdorf, Switzerland

- Development and pre-floating of the single company (sole proprietorship) "Energy and Environment Consultant Dr. M. Semadeni".

Teaching

2001 – 2003: Centre for Energy Policy and Economics (CEPE), Department of Mechanical and Process Engineering, Swiss Federal Institute of Technology (ETH Zurich), Switzerland.

- Joint lecturing with Prof. D. Spreng at the postgraduate studies in hydraulic schemes - Module 7; 'Economy, Planning and Management of Projects', Lecture "Energy and Sustainability", and tutorial classes; "green electricity product design" and "environmentally sound electricity", Laboratory of Hydraulic Constructions, Dept. of Civil Engineering, EPFL, Lausanne, Switzerland.
- TH-Gesuch' by M. Semadeni and D. Spreng: The project "Typology of Hydropower Schemes in View of their External Cost". (PhD-project carried out by Markus Balmer; financed by the Swiss Federal Institute of Technology ETH Zürich).
- Joint lecturing with Prof. D. Spreng and others at the Department of Electrical Engineering; lectures in 'Technology, Energy, Environment', course "Water and Energy - Risk and Hydropower".
- "Energiewirtschaftliches Kolloquium" of the Centre for Energy Policy and Economics (CEPE) [CEPE colloquium on energy economics], ETHZ, May 8. 2003, Zurich Switzerland.

1999 – 2000: Natural and Social Science Interface (UNS), Department of Environmental Sciences, ETH-Zurich, Switzerland.

- Environmental case study of the Department of Environmental Science, "Zukunft Schiene Schweiz [Future of the Swiss Railway]"; Tutor of the advanced student group "Contaminated site and waste management".
- Lecturer at the Department of Environmental Sciences, Regelmechanismen im Bereich Abfall und Altlasten [Control mechanisms in waste and contaminated site management]. Joint lecturing program with Prof. R. W. Scholz.

1995 – 1997: Stanford Environmental Engineering Program, Department of Civil and Environmental Engineering, Stanford University, USA.

- Teaching assistant (Oberassistent) at Stanford Environmental Engineering Program (SEEP).

1989 – 1994: Swiss Federal Institute of Environmental Science and Technology (EAWAG/ETH), Dubendorf, Switzerland.

- Responsible for teaching advanced students of the Environmental Sciences Division ETH at tutorial classes associated with the lectures in Atmospheric Chemistry by Prof. Dr. J. A. Kerr, ETH-Zurich.
- Responsible for assisting students of the Natural Science Division ETH at classes in

Environmental Chemistry by Prof. Dr. J. Hoigné, ETH-Zurich.

Organization of conferences and workshops

1999: Natural and Social Science Interface (UNS), Department of Environmental Sciences, ETH-Zurich, Switzerland.

- Participation in the preparation of the 5th auDes-Conference on Environmental Education, Case studies in Environmental Education and Research, auDes-Europe, ETH-Zurich, Switzerland.

2000 – 2002: Centre for Energy Policy and Economics (CEPE), Department of Mechanical and Process Engineering, Swiss Federal Institute of Technology (ETH Zurich), Switzerland.

- Participation at the organization and preparation of the International Expert Workshop “Steps towards a 2000 Watt-Society” at ETH Zurich, from 09.09. to 10.09.2002 in Zurich, Switzerland. This was a closed workshop providing a discussion platform for 35 invited international experts.
- Participating in organizing the Mutual Learning Session “Radioactive Waste” of the International Transdisciplinarity 2000 Conference, Transdisciplinarity: Joint Problem-Solving among Science, Technology and Society, ETH-Zurich, Switzerland.

Recent conferences and workshops

2021 – 2025: Switzerland

- Symposium Altlasten Schweiz 2021 – ‘Belastete Standorte und Oberflächengewässer’ (contaminated sites and surface waters)
- EnAW Fachtagung 2021 -‘Vom Blick zurück bis zum Sprung in die Zukunft’ (From looking back to jumping into the future)
- Swiss Green Economy Symposium 2022 - ‘Verantwortungsvoll und mutig zusammenarbeiten’ (cooperating responsibly and courageously)
- Swiss Energy Forum 2022 – ‘Innovative Areal-Energieversorgung von A bis ZEV’ (Innovative site energy supply)
- Swiss Green Economy Symposium 2023 – ‘Gemeinsam mehr Wirkung erzeugen’ (jointly for more impact)
- Power-to-Gas Kongress 2023, energie-cluster – ‘Grüner Wasserstoff wie weiter? Alternativen?’ (green hydrogen how to proceed)
- Symposium Altlasten Schweiz 2023 – Sanierung alter Siedlungsabfalldeponien (remediation of waste landfills)
- EnAW Fachtagung 2023 – ‘Herausforderungen, Technologien auf dem Prüfstand und ein emotionaler Abschluss’ (Challenges, technologies evaluations and an emotional conclusion)
- Swiss Energy Forum 2023 – ‘Clever & Smart – der Weg zu einer sicheren, CO2-freien Energieversorgung’ (Clever & Smart - pathway to a secure, CO2-free energy supply)
- IPCC AR7 Tagung 2024 – ‘Information event on work plan and how to contribute’
- Swiss Climate Reporting Forum 2024, greenbuzz, Zurich
- Forum Klima Schweiz 2024 – ‘Umgang mit dem Klimawandel (handling climate change)’
- Swiss Energy Forum 2024, greenbuzz, – ‘Der Elefant im Raum oder wie kann die graue Energie reduziert und genutzt werden? (how to reduce gray energy)’, Zürich
- Sustainable Switzerland Forum 2024 – ‘Transformation hin zu einer zukunftsfähigen Wirtschaft (transformation towards a sustainable economy)’, Bern
- Swiss Green Economy Symposium 2024 – ‘Gemeinsam Konflikte lösen (solving conflicts together)’, Winterthur
- Power-to-Gas Kongress 2024 – ‘Sommerstrom im Überschuss und Winterstromlücke (summer power surplus and winter power gap)’, energie-cluster, Spreitenbach
- Forum ö 2024 – ‘Quo vadis nachhaltige Wirtschaft? (sustainable economy)’, Tagung öbu / sustainserv, Zürich
- Circular Economy Switzerland 2024 - ‘Overcoming Barriers to Circularity in Manufacturing’, greenbuzz, Zürich
- PFAS Event 2024 (per- and polyfluoroalkyl substances PFAS treatments), Oxyl, ETH Zurich
- Swiss Sustainable Futures Summit 2024, Trust Square Zürich

- BAFU Industry Roundtable 2025, ProZirkula, - 'Kreislauffähige IT (circularity in IT)', January 2025, Bern
- Swiss Climate Reporting Forum 2025, greenbuzz, May 2025, Zürich
- Climate Justice & Corporate Leadership - Transforming Global Supply Chains, Verband für nachhaltiges Wirtschaften öbu / greenbuzz, June 2025, Zürich
- Circularity Summit 2025, Verband für nachhaltiges Wirtschaften öbu / greenbuzz, June 2025, Zürich
- Swiss Green Economy Symposium 2025 – 'Leinen los für Nachhaltigkeit' (set sail for sustainability), September 2025, Winterthur
- Sustainable Switzerland Forum (SSF) 2025, Kreislaufwirtschaft (circular economy), Lieferketten im Spannungsfeld (supply chains under pressure), KI & Energiemanagement (AI and energy management), September 2025, Bern

Education

Stanford University, Stanford, USA

March 1995 - November 1997

- Post doctorate in environmental chemistry, Department of Civil and Environmental Engineering, Stanford University, Stanford, USA. (Supervisor: Prof. Dr. M. Reinhard)
Research projects; see 'Project Work' above

Swiss Federal Institute of Technology (ETH), Zurich, Switzerland

January 1990 – November 1994

- Dissertation at ETH-Z (Dr.sc.nat.), Environmental Sciences, Swiss Federal Institute of Environmental Science and Technology (EAWAG/ETH), Dübendorf, Switzerland (Supervisor: Prof. Dr. J.A. Kerr).
Research project: "Photo-oxidation of volatile organic compounds (VOCs) under simulated tropospheric conditions"; LACTOZ (Laboratory Studies of Chemistry Related to Tropospheric Ozone) a subproject of EUROTRAC Thesis: OH radical reactions of volatile organic compounds under simulated tropospheric conditions: Tropospheric lifetimes.

November 1983 – April 1989

- Higher education at ETH-Z, Department of Biochemistry ETH
- Exchange student at University of California Berkeley, one semester in 1986 and 1987
- Diploma thesis in biochemistry / molecular biology at ETHZ (dipl. nat. ETH, March 1989).

High School "Evangelische Mittelschule Samedan (EMS)", Samedan, Switzerland

October 1978 – April 1982

- Gymnasium with focus in economics (Maturität Typus E)

Further Training

2025

Coaching: Zertifikatslehrgang 'ZRM-Coach' des Instituts für Selbstmanagement und Motivation Zürich (ISMZ GmbH), Module 1 bis 5, Präsenzzeit 50h, schriftliche Klausur 3h, Praxissequenz 70h (davon 3 Coachingfälle à 7h - 1x online, 2x physisch - und Vorbereitungen, Zusammenfassungen, Fallberichte, Supervision) – **Certificate December 2025, available on demand.**

2023 – 2025

Sustainable Finance: TNFD Webinar – ‘Recommendations Launch’, Taskforce on Nature-related Financial Disclosures (TNFD), online September 2023

Sustainability and Data: ETH Webcast – ‘Rethinking Observation’, WEF, online January 2024

ESG Reporting: Anwendungsausbildung ‘esg2go Professional’ und Schlusstest ‘esg2go-Rating and -Reporting Application’ (application training and final test), esg2go, Zentrum für Nachhaltigkeit CCRS Zurich, online February 2024 - **Vereinbarung esg2go - Professional**

ESG Reporting: ‘Materiality in Sustainability Reporting’, GRI-training, London Reporting Academy (LRA), online March 2024

Coaching: ISMZ Kurs ‘Alba Emotions - bewusst Emotionen steuern’ (conscious emotion control), Institut für Selbstmanagement und Motivation Zürich (ISMZ GmbH), Zentrum für Weiterbildung der Universität Zürich, Zurich, Switzerland, March 2024

Coaching: ISMZ Kurs ‘Entscheidungscoaching’ (decision-making coaching), Institut für Selbstmanagement und Motivation Zürich (ISMZ GmbH), online April 2024

Climate Reporting: Science Based Targets Initiative (SBTi) Webinar, ‘SBTi – Grundlagen und erste Schritte’ (basics and first steps), Go For Impact (GFI), online April 2024

Climate Reporting: Science Based Targets Initiative (SBTi) Webinar, ‘Follow up’, Go For Impact (GFI), online April 2024

Coaching: ISMZ Kurs ‘Persönlichkeitsentwicklung’ (personality development), Institut für Selbstmanagement und Motivation Zürich (ISMZ GmbH), Zentrum für Weiterbildung der Universität Zürich, Zurich, Switzerland, online May 2024.

ESG Reporting: GRI Webinar – ‘CSRD - Implementation and beyond’, online May 2024

Sustainable Finance: TNFD Webinar - ‘Introduction to TNFD’, Taskforce on Nature-related Financial Disclosures (TNFD), online May 2024.

Sustainable Finance: Swiss Sustainable Finance Webinar - ‘Swiss Climate Scores Template 2.0’, Swiss Sustainable Finance and Asset Management Association, online June 2024.

Sustainable Finance: TNFD Webinar - ‘Navigating nature-related disclosures under CSRD and TNFD’, Taskforce on Nature-related Financial Disclosures (TNFD), online July 2024.

ESG Reporting: GRI Webinar - ‘Business reporting on SDGs’, online July 2024

ESG Reporting: GRI Webinar - ‘GRI – ESRS’, online July 2024

ESG Reporting: esg2go Rating and -Reporting Webinar - ‘CCRS, Ecovadis, Climate Partner’, online September 2024

Climate Reporting: Oxia-Webinar - ‘Energie & CO2 von Gebäuden – Effizienzgewinne mit KI (energy&CO2 in buildings – efficiency gains through AI’, online October 2024

ESG Reporting: CRIF Webinar – ‘Beyond Climate Risks’, CRIF SpA, online November 2024

ESG Reporting: Go For Impact Webinar – ‘CSRD für Schweizer Unternehmen’, online January 2025

Coaching: ISMZ Grundkurs nach dem Zürcher Ressourcen Modell ZRM (fundamentals of the Zurich Resource Model), Institut für Selbstmanagement und Motivation Zürich (ISMZ GmbH), online January 2025

EU Sustainability Regulations: Nordic Sustainability Webinar - The Omnibus; what's next for corporate sustainability, online February 2025

Circular Economy: Öbu Webinar 'Kreislaufwirtschaft', kreislauffähige Beschaffung (sustainable procurement), Verband für nachhaltiges Wirtschaften öbu, online March 2025

Sustainable Finance: EU Platform on sustainable finance Webinar 'Sustainable Finance for SMEs' - streamlining sustainable finance reports for SME's, online March 2025

Climate Reporting: SBTi Webinar 'Corporate Net-Zero Standard, Introduction to version 2', online April 2025

Sustainable Finance: TNFD-Webinar 'early adopters', Taskforce on Nature-related Financial Disclosures (TNFD), online April 2025

Climate Reporting: Erst & Young Webinar, Net Zero Standard SBTi 2.0 für Nachhaltigkeit, Dekarbonisierung und negativ-Emissionen, online May 2025

Sustainable Economy: Öbu Webinar 'Nachhaltigkeit glaubwürdig kommunizieren', Verband für nachhaltiges Wirtschaften öbu, online June 2025

Sustainable Finance: TNFD Webinar 'Investors perspectives', Approach to company engagement for nature, Taskforce on Nature-related Financial Disclosures (TNFD), online July 2025

Sustainable Economy: Öbu Webinar 'Nachhaltigkeit strategisch verankern', Verband für nachhaltiges Wirtschaften öbu, online September 2025

2012 – 2017

'inlingua' French course, level B2, private lessons, Basel, Switzerland

2013

SNV course about energy management systems according to ISO50001, Winterthur, Switzerland

2011

Sharpening your message, Syngenta course on communication skills, Basel, Switzerland

2010

Foundations of Leadership, Syngenta Management Development Course, Freiburg, Deutschland

2009

Strategic Influencing, Syngenta Management Development Course, Jelot's Hill, United Kingdom

2008

The Essentials of Effective Negotiation, IIR Management Development, London, United Kingdom.

2006

Course at the 16th SETAC Annual Meeting, "Life Cycle Inventory (LCI) datasets in EcoSpold format", May 7.-11. 2006, The Hague, The Netherlands.

2004

Portfolio and risk management in liberalized electricity markets, Swiss Federal Institute of Technology (ETH), Power System Laboratory, Dr.sc.Tech. Dieter Reichelt, April 7.–June 30. 2004, Zurich, Switzerland.

2001

Postgraduate studies in hydraulic schemes – Module 7; 'Economy, Planning and Management of Projects', Laboratory of Hydraulic Constructions, Department of Civil Engineering, EPFL, March-May 2001, Lausanne, Switzerland.

4th International Course on Hydropower Resources Development and Management (HRDM 2001), International Center for Hydropower, May 21.- June 7. 2001, Trondheim, Norway.

2000

Mutual learning session 'Radioactive Waste' at the International Transdisciplinarity 2000 Conference, Transdisciplinarity: Joint Problem Solving among Science, Technology and Society, ETH-Zurich, Zurich, Switzerland.

1999

Workshop in "Leitung von Lern und Arbeitsgruppen" [Leading of classes and work groups], Didaktikzentrum ETH-Zurich, Switzerland.

Workshop in project management and leadership, Course INT 813, Personalabteilung, ETH-Zurich, Switzerland.

1995

Course in public speaking, Engineering 103, Science, Technology, and Society Program, School of Engineering, Stanford University, USA.

Workshop in CAS literature search methods (CA, REG File), Engineering Library, Department of Civil and Environmental Engineering, Stanford University, USA.

Additional Information

Languages

Mother tongue: Swiss German / German

First foreign language: English (fluent in speaking and writing)

Second foreign language: French (spoken and written experience)

Third foreign language: Italian (basic knowledge, passive vocabulary)

Home address

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