

CURRICULUM VITAE

- 1. Family name:** SCHARF
2. First names: Walter
3. Date of birth: 2 July 1949
4. Nationality: Austrian
5. Civil status: Single
6. Education:

| Institution From (month/year) – To (month/year) | Degree(s) or Diploma(s) obtained |
|--|--|
| Technische Universität (Technical University), Vienna/A September 1968 – April 1977 | Civil Engineer of construction engineering (Ziv.-Ing.) |

7. Language skills (mark 1 to 5 for competence (1-excellent; 5-basic))

| Language | Reading | Speaking | Writing |
|------------------------|---------|----------|---------|
| German (mother tongue) | 1 | 1 | 1 |
| English | 2 | 2 | 3 |
| French | 4 | 5 | 5 |

8. Membership of professional bodies:

- Chairman of the Austrian ÖNORM Committee (Austrian Standard Specification Institute) on Waste Management Standards
- Chairman of the Austrian ÖNORM Committee on Reuse and Recycling of Waste
- Member of the Austrian ÖNORM Committee on Waste Technologies
- Chairman of ÖWAV – Department for Waste Management and Stabilization of Contaminated Sites
- Member of ÖWAV Österreichischer Wasser- und Abfallwirtschaftsverband (Austrian Water and Waste Management Association), member of the Steering Committee, chairman of working group on risk-management and integrated environmental protection issues in waste management facilities
- Member of the executive board of B.A.U.M. – an Association of Austrian Managers declaring to environmental management systems

9. Other skills

- About 30 years of professional experience in environmental protection and environmental impacts focused in the field of waste management
- Since 1977 working in waste management and environmental consulting
- Civil engineering exam in 1997
- Trade licence for technical engineering office in the field cultural technology and water industry 1999
- Trade licence for management consulting and organisation 2000
- Lecturer at Umwelt Management Austria
- Lecturer and examiner for adult education

10. Present position

CEO and companion of Ingenieurgesellschaft Innovative Umwelttechnik GmbH

11. Years within the company

since April 1999, (before 8 years in mother-company Innovative Umwelttechnik Ges.m.b.H. as CEO)

12. Key qualifications

- Environmental technologies – rating of ecological and economical aspects
- Information and training programs on environmental protection, eg. employee training for landfills
- Scientific work on waste management
- Development of waste managerial processes

- Risk assessment and risk analyses
- Engineering of waste treatment plants
- Risk Assessment and risk prevention technologies: Mr. Scharf had worked out programs for health and safety in industry and administration as lecturer for EMA (Environmental Management Austria) and AUVA (general accident insurance organisation)

13. Professional experience

| Date | Location | Company | Position |
|-----------|-----------------|----------------------|--------------------|
| 1977-1983 | Vienna, Austria | Technical University | Assistant lecturer |

- Systems and facility development and research for waste management
- Strategic "Waste Management Plan" for the city of Graz
- Concept for safety procedures for work and stabilization of landfill "Köglerweg" in Graz
- Scientific and developing work on waste management
- Scientific work on gas formation of domestic waste (landfill gas)
- Development of a waste minimization management program
- Technical base and definition of the waste management concept of the city Graz (Styria)
- Integrated strategy for the long term management of municipal and industrial wastes
- Integrated strategy for the long term management of hazardous waste and clinic waste
- Member of waste advisory board of Austrian ministry for environment, youth and family
- Author of scientific articles about environmental sustainability and risk assessment of environmental engineering facilities.

| Date | Location | Company | Position |
|-----------|-----------------|--|----------|
| 1983-1992 | Vienna, Austria | Austrian Society of Nature and Environmental Protection (ÖGNU) | CEO |

- strategy and working plan for an office on environmental education to work out training programs for schools and experts of the government (training teachers, environmental and waste management experts) – Vienna-A
- Strategy for implementing the idea of National Parks in Austria as a common strategy for the protection of nature
- Mediator between project operators and affected communities (before establishing EIA).
- Implementation of "Responsible Care" for the Austrian Chemical Industry, study and guidelines
- Study about environmental emissions of the Austrian Chemical Industry (waste, hazardous waste, wastewater and air pollution (1990 – 91)
- General manager of ÖGNU (top organization of Austrian environmental associations) and establishing of Forum Environment – for 10 years

| Date | Location | Company | Position |
|-----------|----------------------|-------------------------------|----------|
| 1992-1999 | Seebenstein, Austria | Innovative Umwelttechnik GmbH | CEO |

- Scientific work on waste management
- Risk assessment, especially on landfill sites and hazardous waste recycling and treatment plants
- Environmental studies and master engineering for waste treatment plants
- Authorizing procedures for waste treatment plants

| Date | Location | Company | Position |
|------------|----------------------|---|----------|
| since 1999 | Seebenstein, Austria | Ingenieurgesellschaft Innovative Umwelttechnik GmbH | CEO |

- Safety and risk assessment (ATEX)
- Hazardous Waste management
- Plant and systems design

- Project management
- Studies about waste managerial issues
- Authorizing procedures for waste treatment plants
- Environmental education and training
- Due diligence studies
- Consulting

14. Publication, lecture (abstract)

Author scientific and consulting works in the field of waste management, base scientific work in the field of landfill, especially about formation of landfill gas of household landfills, as well as risk of landfill and site rebuilding, lecture of several waste managerial meetings.

- Risks and hazards on wastes
As lecturer for EMA - Environmental Management Austria, AUVA – Allgemeine Unfallversicherungsanstalt – program for health and safety in industry and administration for waste management plants, 1999 – on going, St. Pölten (A)
- Costs of waste disposal
Article published in Wissenschaft & Umwelt, Heft 3, Hrsg. Forum Österreichischer Wissenschaftler für den Umweltschutz, 2002, (A).
- Efficiency of recycling methods for sewage sludge disposal in future
Article published in Waste management between law and practice, 2002, Vienna (A)
- Austrian waste management law 2002 – results on practice
Talk at 4th Waste summit meeting Western Austria, 24.10.2002, Innsbruck (A)
- Waste treatment principles
Talk at congress „New Austrian waste management law – consequences in practice, Wirtschaftskammer Österreich, 3. Juli 2002, Vienna (A)
- Quality of refuse derived fuel (SRF)
Talk at ÖWAV , 2002, Vienna (A)
- A history of customs and manners of waste. From dumping place over landfill to mechanical biological treatment plant within 50 years waste management in Styria, 2005, (A)
- Speech on “Separate Collection – necessary for Recycling?”, Oberpullendorf (A), September 2005
- Speech at the conference of experts about “New Technology for Sorting versus Separate Collection”, Graz (A), January 2006
- Speech on “Waste to Fuel – one Step to Sustainable Development” at the IXth International Symposium of “Waste Management 2006 - symposium”, Zagreb (Croatia), November 2006
- Speech on “Quality of Solid Recovered Fuels – Treatment and Acceptance on the Market”, at the Austrian Waste Management Congress on “Energy and Recyclables in Wastes”, Linz (A), 28th and 29th of March 2007
- Speech on “The Disposal of Hazardous Wastes and Materials”, GfC – Society of Chemists, Vienna (A), October 2007
- Speech on “Framework conditions of collection systems on quality and quantity of recyclables”, at the congress on “Collection of Packaging Wastes – Quality versus Quantity”, Villach (A), May 2008
- Lecturer for the classes for the “Qualifying examinations to the legally recognized manager for waste facilities” in ÖWAV, Vienna (A) – on going and
- Lecturer for the classes for the “Qualifying examinations to the legally recognized manager for hazardous waste management” in ÖWAV, Vienna (A) – on going