

# C.V.

## Hans Schnitzer

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### Academic Training:

1968 Matura at the Bundesrealgymnasium in Knittelfeld  
1968 to 1974 Chemical Engineering at the University of  
Technology in Graz  
1974 to 1978 Thesis (Doctorate): "Static and Dynamic Models  
as Basis for a Recycle Control Strategy of Activated Waste  
Water Treatment Plants"  
1985 Habilitation "Heat Pumps in Systems of the Process  
Industry";  
Ass. Prof. for Chemical Engineering Fundamentals and  
Energy Technology

### Academic Carrier:

1971 Research Assistant at the Institute for Chemical  
Engineering Fundamentals with Prof. Dr. Franz Moser  
1974 to 1976 Research Assistant with Prof. Dr. Otto  
Wolfbauer (Biochemical Engineering)

from 1977 on Assisting Professor at the Institute for Process Technology

since 1989 Associate Professor

1992 Foundation of a private research company Stoff-Energie-Umwelt (STENUM) (Research Company for Materials-Energy-Environment)

Guest Professor for Environmental Engineering at the University of Linz and Leoben (Austria)

since 1998: Head of the Institute for Sustainable Techniques and Systems at JOANNEUM RESEARCH

#### Functions in Environmental and Energy Politics:

Certifier for the Austria Environmental Funds

1<sup>st</sup> Chairman of the “European Roundtable on Cleaner Production”

Chair of the Working Group „Industry and Commerce“ within the Austria National Environmental Plan NEP

Chairman of the working group Cleaner Production in the Austrian association for water and waste management (ÖWAV)

Chairman of the European Network on Good Environmental Practices (network supported by EU DG III).

Vice-chair of the Austria Network on Technologies for Sustainability (AT:SD)

Manager of the ASEM Focal Point “Clean and Sustainable Production”

#### Teaching:

University of Technology Graz: Chemical Engineering Fundamentals, Energy Technology, Cleaner Production, Waste Management

Montanuniversity Leoben: Sustainable Development

Trainer at various non-university institutions (Arge Müllvermeidung, WIFI, CENTRIC; ...) in the same fields

#### Research Activities:

Main research activities at present lay in the field of Cleaner Production in all its aspects as environmental management, technologies, process assessment, production logistics, energy concepts.

Leader of the Austrian activities within the EUREKA research project PREPARE (Preventive Environmental Protection Approaches in Europe).

Solar strategies for communities and regions within a Sustainable Development.

Energy strategies for companies, including the use of solar energy in industry.

Software development for environmental strategies.

ECOPROFIT, a city based project in some Austrian countries.

Implementation and maintenance of local and regional Cleaner Production programmes – co-ordinator of an international research project under the 4th framework of DG XII with partners from Ireland, Netherlands, Portugal, Italy and Denmark.

Envirocare – development of an interactive teaching software for vocational schools on sustainability; international project with Ireland (co-ordinator), Netherlands and Portugal

ZERIA – Zero Emission Research in Austria, project design and management

#### Books:

Moser F., Schnitzer H.; Heat Pumps in Industry. Elsevier, Amsterdam, 1985

Ferner H., Schnitzer H.; Optimierte Wärmeintegration in Industriebetrieben (Optimised Heat Integration in Industrial Sites), dbv-Verlag Graz, 1990

Schnitzer H.; Grundlagen der Stoff- und Energiebilanzierung (Fundamentals of Material and Energy Balances). Vieweg, Braunschweig 1991

Schnitzer H., Dimitroff-Regatschnig H.: Produktionsintegrierter Umweltschutz – eine Verringerung von Abfällen und Emissionen stärkt das Unternehmen und schützt die Umwelt. Schriftenreihe des Bundesministeriums für Umwelt, Jugend und Familie, 1999

Dimitroff-Regatschnig H., Schnitzer H.; Erfassung von Umweltkosten. ÖKOPROFIT – Heft 3, Umweltamt Graz, überarbeitete Version 1999

Schnitzer H.; Grundlagen für die Ausrichtung eines Technologieschwerpunktes „Nachhaltig Wirtschaften“. Berichte aus Energie- und Umweltforschung 7/98, BMWV, Wien, 1997

Schnitzer H.; Totalumstieg ist möglich. Contribution in Kronberger H., Nagler H.: Handbuch der erneuerbaren Energien. Uranus, undated