

CURRICULUM VITAE

Name: Assoc.Prof. Dipl.-Ing. Dr. techn. **Manfred Klell**
Born: September 17th 1956 in Innsbruck, Tyrol, Austria
Address: Griesgasse 2, A-8020 Graz,
Family: married with Barbara Klell, born Laimer, since 1994
2 daughters: Tara born 1996, Stella born 1997



Qualification:

Broad experience in **organisation, management, research, and lecturing:**

- Conception, management and execution of technical projects as technical director and CEO, especially in the fields of thermodynamics, combustion engines and hydrogen in Austria and abroad
- Development and application of simulation tools for thermodynamic analysis of processes and systems
- Planning, construction and operation of test stands and measurement techniques
- Cooperation with a number of companies and institutions in Austria and abroad
- Lecturer at Graz University of Technology in the subjects of Advanced Thermodynamics, Hydrogen in Vehicle- and Energy Technology, etc.
- Lecturer at Bandung University of Technology, Indonesia, and King Mongkuts Institute of Technology Ladkrabang, Bangkok, Thailand

EDP: experience in: Microsoft Office, Graphic applications,
data acquisition and processing, simulation of thermodynamic processes

Languages: fluent in spoken and written **English**
good in spoken and written **French**

Career:

12/2012 - **Associate professor** at the Institute for Internal Combustion Engines and Thermodynamic, Graz University of Technology

03/2005 - **CEO and technical director** of the HyCentA Research GmbH, the first Austrian research center for hydrogen, www.hycenta.at

01 – 10/2011 **Scientific Head** of Area Thermodynamics of Kompetenzzentrum Das virtuelle Fahrzeug, www.v2c2.at

01/1984 – 11/2012 with temporary sojourns abroad member of **scientific staff** at the Institute for Internal Combustion Engines and Thermodynamic, Graz University of Technology, Head Univ.-Prof. Dipl.-Ing. Dr. Rudolf Pischinger
From 2003: Head Univ.-Prof. Dipl.-Ing. Dr. Helmut Eichlseder

Studies:

- 09/1976 - 06/1983 **Studies of mechanical engineering** at Graz University of Technology with distinction, Field of expertise: internal combustion engines
21. 6. 1983 **Sponson:** Diplomingenieur für Maschinenbau (Master of Science)
26. 4. 1989 **Promotion:** Doctor of Technical Science (PhD) with distinction, PhD thesis: Institute for Internal Combustion Engines and Thermodynamics 1989: „Measurement and Calculation of transient surface temperatures and heat flux in internal combustion engines“
- 11.01.2011 Postdoctoral **lecture qualification** in the field of Applied Thermodynamics, Habilitation thesis: „Thermodynamics of Hydrogen “, Graz University of Technology, 2010

Education:

- 09/1963 - 07/1967 Siegmayer - Volksschule Innsbruck – Primary School
- 09/1967 - 07/1975 Akademisches Gymnasium Innsbruck – High School
- 04.06.1975 Abitur certificate with distinction
- 10/1975 - 05/1976 Army service, Heereskraftfahrer (truck driver) in Hall in Tirol

Further activities:

- 05/1990 - 06/1993 Study of **Buddhist philosophy** at University of Tibet, Dharamsala, India
- 07/1995 Foundation of Buddhist Center She Drup Ling Graz
- 04/2002 - 12/2002 Responsible organizer of the international meeting „**Kalachakra for World Peace Graz 2002**“ from October 11th till 23rd 2002 with H. H. Dalai Lama and 10000 participants from 70 countries, management of 40 employees and more than 300 trainees.

Publications in reference books, reference journals and at symposia, e.g.:

- Klell, M.; Eichlseder, H.; Sartory, M.: **Mixtures of Hydrogen and Methane in the Internal Combustion Engine – Synergies, Potential, and Regulations.** International Journal of Hydrogen Energy, Vol. 37, pp. 11531 – 11540, 2012
- Klell, M.; Eichlseder, H.; Sartory, M.: **Variable Mixtures of Hydrogen and Methane in the Internal Combustion Engine of a Prototype Vehicle – Regulations, Safety and Potential.** International Journal of Vehicle Design, Vol. 54, No. 2, S. 137 - 155, 2010
- Eichlseder, H.; Klell, M.: **Wasserstoff in der Fahrzeugtechnik. Erzeugung, Speicherung, Anwendung.** (Hydrogen in vehicle technology. Production, storage, application) 3rd edition, Springer Vieweg, Wiesbaden, 2012
- Klell, M.: **Storage of Hydrogen in Pure Form.** In: Handbook of Hydrogen Storage. Hrsgb. M. Hirscher, Wiley-VCH Verlag Weinheim, 2009
- Pischinger, R.; Klell, M.; Sams, Th.: **Thermodynamik der Verbrennungskraftmaschine.** (Thermodynamics of Internal Combustion Engines). 3rd edition. Edt. Helmut List, Springer-Verlag Wien New York, 2009