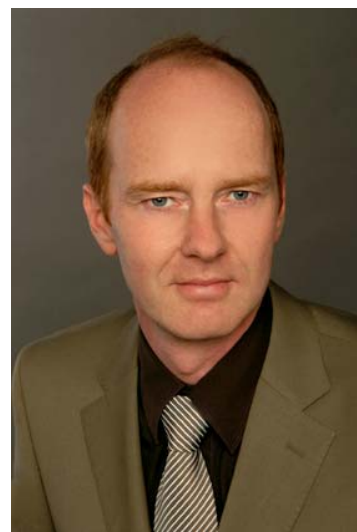


# Curriculum Vitae

## CONTACT INFORMATION

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## PERSONAL INFORMATION

Date of Birth 1966, May 3rd  
Place of Birth Bludenz, Austria  
Citizenship Austria  
Sex Male  
Marital Status Married  
Spouse's Name Mag. Doris Baumgartner-Zettl  
Children 3, born in 1994, 1999, 2008

## EMPLOYMENT HISTORY

**Since 2009** Project manager at ASIC (Austria Solar Innovation Center) in Wels (Upper-Austria),  
Research and innovation management in the field of solar-thermal applications and energy storage

**2007-2008** employed at a Light-Metal Casting Company in Automotive Industries in Lower-Austria  
Department of Quality-Management (Measurement and Material Testing)

- Head of Quality-Techniques
- Leadership for 14 staff members
- Sampling and prototype inspections
- SPC and CIP for Aluminium casting production

**2004-2007** Post-Doc at the Department of Material Sciences

Project Manager for Industrial Research in the field of

- Fatigue measurements of spring steels (BOSCH AG)
- Ultrasonic assisted machining (HILTI AG)
- Fatigue and crack propagation measurements of Aluminium and Magnesium alloys (AUDI AG)

Lectures in Physics and Material Sciences as Assistant Professor

**1997-2004** Academic Positions

Research Scientist at the Dept of Material Sciences / University of Agricultural Sciences / Vienna

Experimental Work: Material testing of steel, fibre reinforced, light metal, and wood-based materials,  
Metallography and Microscopy (SEM, EDX)

Publication: Peer-reviewed articles and Conference Contribution

Doctoral Thesis: Fatigue and crack behaviour of Aluminium foam

## RESEARCH AND TRAININGS

**1980-1985** (High school period)

Fa. Gantner, Liftkarten-Lesesysteme (Götzis/Vbg)- 3.5 month, maintenance works

Fa. Hug (Götzis/Vbg)-4 month, programming in BASIC

Fa. Alge-Timing (Lustenau/Vbg)- 1.5 month, assembly of electronic circuits

Fa. Markovski-Vermessungsbüro (Feldkirch/Vbg)- 5 month, geodesic measurements

Fa. Marte Sonderfahrzeugbau (Weiler/Vbg)- 2 month, assembly of electronic vehicle-components

### 1986-1995 (University period)

CERN- Nuclear research Centre (Geneva, Switzerland), 3.5 month, programming (FORTRAN 77, IBM-VM), assembly and testing of electronic circuits,  
PAN-AM-World-Airways/ Sales and Marketing, (Vienna), 13 month, reporting and visualisation of yield and revenue, MS-Excel-Macro programming  
ALL-TRAIN Software Training (Vienna)- 2 years, Mac-OS Training, MS Excel-workshops and Excel-Macro-programming workshops  
Institute for Experimental Physics (TU Vienna)-2 month: experiments on UV-Excimer-Lasers  
Institute for Applied Physics (TU Vienna)-2 month: design and assembly of a tension testing machine

### EDUCATION

High School HTL for Electronics, 1980-85, Matura  
University TU Vienna, 1986-97,  
Diploma Thesis Fatigue and crack initiation behaviour of Magnesium Alloy AZ91  
PhD Univ. of Agric. Sciences-Vienna, Dept. of Material Sciences, 2004, Dissertation

### PROFESSIONAL QUALIFICATIONS

8D-Report Training  
QS-Stat Training (SPC)  
Computer Skills

### AWARDS

Klaus Fischer- Innovationspreis für Technik und Umwelt 2006 / Bereich Materialwissenschaften und Prozesstechnik.

### PUBLICATIONS (reviewed articles only)

1. H. Mayer, M. Papakyriacou, S.E. Stanzl-Tschegg, E.K. Tschegg, **B. Zettl**, HJ. Lipowsky, R. Rösch, A. Stich, "Korrosionsermüdung verschiedener Aluminium- und Magnesium-Gusslegierungen" *Materials and Corrosion*, 50, 81-89 (1999)
2. **B. Zettl**, H. Mayer, S.E. Stanzl-Tschegg, H.P. Degischer "Fatigue properties of aluminium foams at high numbers of cycles" *Mat. Sci. Eng. A*, 292, 1-7 (2000)
3. **Zettl, B.**, Mayer, H., Stanzl-Tschegg, S. "Fatigue Properties of Al-1Mg-0.6Si Foam at Low and Ultrasonic Frequencies" *Int. J. Fatigue*, 23, 565-573 (2001)
4. U. Fuchs, HJ. Lipowsky, H. Mayer, M. Papakyriacou, A. Stich, S. Tschegg, **B. Zettl** "Langsames Ermüdungsrisswachstum in Aluminium- und Magnesiumlegierungen in Raumluft und in Vakuum", *Mat.-wiss. u. Werkstofftech.* 33, 15-23 (2002)
5. U. Fuchs, HJ. Lipowsky, H. Mayer, M. Papakyriacou, A. Stich, S. Tschegg, **B. Zettl** "Einfluss von Gussfehlern auf die Dauerfestigkeit von Aluminium- und Magnesiumgusslegierungen", *Mat.-wiss. u. Werkstofftech.* 33, 117-127 (2002)
6. H. Mayer, M. Papakyriacou, **B. Zettl**, S.E. Stanzl-Tschegg, "Influence of porosity on the fatigue limit of die cast magnesium and aluminium alloys", *Int. J. Fatigue*, Vol.25, No.3, pp.245-256, (2003)
7. H. Mayer, B. Holper, **B. Zettl**, S.E. Stanzl-Tschegg "Slow fatigue crack growth in 2024-T3 and Ti-6Al-4V at low and ultrasonic frequency" *Z. Metallkd.* 94 (2003)
8. G. Sinn, **B. Zettl**, H. Mayer, S. Stanzl Tschegg „Ultrasonic-assisted cutting of wood“ *J. Mat. Proc. Tech.* 170 (2005), 42-49
9. H. Mayer, M. Papakyriacou, **B. Zettl**, S. Vacic „Endurance limit and threshold stress intensity of die cast magnesium and aluminium alloys at elevated temperatures“ *Int. J. Fatigue*, 27 (2005) pp. 1076-1088

10. **B. Zettl**, H. Mayer, C. Ede and S. Stanzl-Tschegg "Very high cycle fatigue of normalized carbon steels" Int. J. Fatigue, 28 (2006) pp. 1583-1589
11. H. Mayer, S. Stojanovic, S. Stanzl-Tschegg, **B. Zettl** „High Cycle Fatigue Behavior of Normalized 0.15% Steel under Tension-Compression and Torsion Loading“ Key Eng Mat, Vols. 378-379 (2008) pp. 29-38

## **BOOKS**

**Zettl, B.**, Mayer, H., Stanzl-Tschegg, S. "Fatigue Damage and Lifetime Prediction of Aluminium Foams“ In: Degischer, H.P., Kriszt, B. (Eds.): Handbook of Cellular, Metals, Wiley-VCH Verlag. ISBN 3-527-29320-5 (2000)

## **INTERESTS**

Skiing, Hiking, Archery