

Curriculum Vitae of Professor Christian Boller



Profession:

- 1981 - 1986 Research assistant in experimental and theoretical fatigue life evaluation with Prof. Dr.-Ing. T. Seeger of the Materials Mechanics Research Group at the Institute of Steel Construction and Materials Mechanics of Technische Hochschule Darmstadt
- 1984 - 1985 6-month scholarship at the Fatigue Testing Division of the National Research Institute for Metals (NRIM) in Tokyo/Japan funded by the Japanese Science & Technology Agency
- 1987 - 1990 Research associate at Battelle-Institut e.V. Frankfurt/M. in materials technology
- 1990 - 1993 Research engineer and senior research engineer at Daimler-Benz Aerospace AG (formerly Messerschmitt-Bölkow-Blohm) Military Aircraft in Ottobrunn/Munich, responsible for smart structures
- 1993 - 1997 Member of the Daimler-Benz Research and Technology Exchange Group, responsible for technology transfer in: (1) application of smart structures in transportation systems, (2) target costing.
- 1998 - 2003 Chief engineer aircraft structures at DaimlerChrysler Aerospace (now EADS) Military Aircraft, Ottobrunn/Munich
- 1999 - 2003 Visiting Professor within the Aerospace Engineering Course at the University of Sheffield/UK
- 2003 - 2008 Professor (Chair) in Mechanical Engineering at the University of Sheffield/UK
- since 2008 Professor (Chair) in Non-Destructive Testing (NDT) and Quality Assurance at Saarland University & Director at Fraunhofer Inst. for NDT
- since 2013 Director of the NDT Master Course at Dresden International University (DIU), the advanced training subsidiary of Dresden University of Technology (TU Dresden)
- since 2014 Visiting Professor at Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing/China
- since 2017 Visiting Professor at Tohoku University in Sendai/Japan
- 2017 Founder of the The Engineering Structural Integrity Society (ThESIS) and Founder President
- Awards International Workshop on Structural Health Monitoring, Stanford, USA
Lifetime Achievement Award (2009)

Teaching at the Saarland University

Non-Destructive Testing I (since 2009)
Non-Destructive Testing II (since 2009)
NDT Laboratory I (since 2009)
NDT Laboratory II (since 2009)
Fatigue & Fracture (since 2011)
Structural Health Monitoring (since 2014)

Teaching at the University of Sheffield/UK (until 2008)

Seminar '*Aircraft Structural Integrity*' (12 – 15 hrs. per academic year) as visiting professor from 2000 to 2003

Courses taught since 2003:

ACS172 Introduction to Aerospace (partially since 2007)
MEC210 Business Skills for the Engineer (2005 - 2006)
MEC282 Aerostructures (2000 – 2004)
MEC305 Engineering Management (2004)
MEC307 Group Design Project (2004)
MEC385 Aerospace Group Design Project (since 2004)
MEC402 Advanced Principles of Structural Integrity (2004)
MEC413 Aerospace Systems and Structures (since 2006)

Teaching at Dresden International University (DIU)

Scientific director of the two years double degree NDT master course (since 2013)

Fatigue & Fracture (2014-2017)
Sound and Vibration (2014-2017)
Mechanics (since 2017)

Activities with Respect to Educational Series:

NDT Winter School – a thematic one week course for students at master and PhD level run since 2015 with the following topics and at the following locations:

- 2015: Ageing Infrastructure, Saarbrücken/Germany
- 2016: Nuclear Infrastructure Decommissioning, Sendai/Japan
- 2017: Aeronautical Structures, Nanjing/China

Lecture Series 'SHM in Action' held once or twice annually for 2 to 5 days together with A. Güemes (coordinator), S. Fassois, C.-P. Fritzen, M. McGugan, W. Ostachowicz and A. Suleman since 2006 worldwide.

Smart Structures Course (1993 to 1995) held at the University of Strathclyde Glasgow/Scotland; in charge of lecturing '*Aerospace Requirements for Smart Structures*'

AGARD Lecture Series 205 entitled '*Smart Structures and Materials Implications for Military Aircraft of New Generation*'; 2 days lecture series held during the 4th quarter of 1996 in the USA, France and the Netherlands; served as the lecture series director and gave lectures 'Introduction to Smart Structures and Materials', 'Fundamentals of Structure Health Monitoring' and 'Shape Memory Alloys'.

Workshop on '*Structural Health Monitoring*', along the Internat. Conf. on Smart Materials, Structures and Systems, Bangalore/India, July 7, 1999

Seminars held on different topics at the following universities and institutions:

Cathol. University Leuven/Belgium; Kyushu Inst. of Technology Kokura/Japan; Nagoya University Nagoya/Japan; National Research Inst. for Metals Tokyo/Japan; Osaka City Univ./Japan; Tokyo Institute of Technology Tokyo/Japan; Yamaguchi University Ube/Japan; Techn. Universität Hamburg-Harburg; Techn. Universität München; Universität Stuttgart; VDI-TZ Düsseldorf; TU Darmstadt/Germany; TU Clausthal-Zellerfeld/Germany.