

Curriculum Vitae



Born: 1963

Profession: Physicist, with a long term experience as research engineer, working on exterior and interior noise including noise certification tests for satellite systems and components of the European ISS module. His main work areas are propeller & jet noise, and the perception of noise. He has profound experience in wind tunnel & flight testing and in the coordination national and international projects.

Since 2008 Research team leader for aeroacoustics at EADS Innovation Works.

2005 – 2008 EADS Deutschland GmbH, Innovation Works, scientific employee and project leader in Team Aeroacoustics of Technical Capability Center „Structures Engineering, Production & Mechatronics“; several patents employee and project leader in the aeroacoustics team of Technical Capability Center „Structures Engineering, Production & Mechatronics“; several patents.

1998 - 2005 EADS Dornier GmbH, research and development engineer, project leader; 1 patent

1992 – 1998 Ingenieurgesellschaft für Bauphysik, Akustik und Schwingungstechnik mbH, project leader and consultant.

Education: 1992 receiving the doctor's degree *Dr.rer.nat* in physics
1989-1992 scientific employee at the Institute of Physics/University of Bayreuth
1989 diploma thesis in physics
1983-1989 study of physics at the University of Bayreuth

1973-1982 secondary school
1969-1973 elementary school

Military Service: 1982 – 1983: 15 months basic military service within German Luftwaffe (Airforce)

Languages: English (negotiation)
French (basic knowledge)

Selection of recent publications:

- G. Saueressig, M. Bauer, F. Holste, W. Neise, and K. Haag, “QUIET TRAFFIC - WORKING GROUP ON AIRCRAFT NOISE AND ITS FOCAL POINT QUIET COMMERCIAL AIRCRAFT”, Euronoise 2006
- Michael Bauer and Klaus Vatter, “Advanced Integrated Acoustic Actuator for Noise Reduction Inside Duct Systems”, AIAA 2009-3228, 15th AIAA/CEAS Aeroacoustics Conference (30th AIAA Aeroacoustics Conference), Miami, Florida, 11 - 13 May 2009
- H. Fleischer and M. Bauer, “An Experimental Study on Moving Nozzle Flaps for Active Jet Noise Control”, AIAA 2009-3223, 15th AIAA/CEAS Aeroacoustics Conference (30th AIAA Aeroacoustics Conference), Miami, Florida, 11 - 13 May 2009
- M.Bauer et al., “COSMA - Community Oriented Solutions to Minimise Aircraft Noise Annoyance”, INTERNOISE 2010, 13-16 June 2010, Lisbon, Portugal.
- Daniel Redmann, Andreas Gündel, and Michael Bauer, Engineering Approach for a Simplified Description of Rotor-Rotor Interaction Noise of a CROR Configuration, AIAA 2010-3792, 31st AIAA Aeroacoustics Conference 2010, Stockholm, Sweden.
- F. Marki et al., “SOUND SYNTHESIZER TOOL FOR ON-LINE INTER-ACTIVE SOUND QUALITY ANALYSIS OF AIRCRAFT FLYOVER NOISE”, 18th International Congress on Sound and Vibration, ICSV18, Rio de Janeiro, Brazil, 10-14 July 2011. (*co-author*)
- F. Marki et al., “Sound synthesizer tool for on-line sound quality analysis and target sound design of aircraft flyovers”, INTERNOISE 2011, 4-7 September 2011, Osaka, Japan. (*co-author*)

- M.Bauer et al., “COSMA – An Overview of Latest Achievements on the Minimization of Aircraft Noise Annoyance”, EURONOISE 2012, 10-13 June 2012, Prague, Czech Republic.
- M.Bauer, D.Redmann, and R.Pongratz, “An Experimental Study on a Low Noise Blade Concept for CROR”, 18th AIAA/CEAS Aeroacoustics Conference (33rd AIAA Aeroacoustics Conference), 4 - 6 June 2012, Colorado Springs, USA.
- M.Bauer, L.Pannier, “Active jet noise reduction by oscillating mechanical flaps at the nozzle exit”, 18th AIAA/CEAS Aeroacoustics Conference (33rd AIAA Aeroacoustics Conference), 4 - 6 June 2012, Colorado Springs, USA.
- M.Bauer, D.Redmann, J.Steigenberger, “ACTIVE REDUCTION OF BROADBAND JET NOISE BY APPLICATION OF A PULSATING SECONDARY FLOW”, 20th International Congress on Sound and Vibration, ICSV20, Bangkok, 7-11 July 2013. *(in preparation)*