

Curriculum vitae – CV

PERSONAL DATA

Name, Titles: Assoc. Prof. (habil.) Dr.-Ing. Fabian Ochs

EDUCATION

1994 Abitur, Staffelseegymnasium Murnau a. St., Germany
2002 Diploma (Dipl.-Ing.) Energy Engineering Technical University Berlin, Germany
2009 PhD (Dr.-Ing.) “Modelling Large-scale Thermal Energy Stores” at Institute of Thermodynamics and Thermal Engineering (ITW), University of Stuttgart
2023 Habilitation “A Contribution to Total Building Modelling – from Component to District Level”, Building Physics/Building Technology/Renewable Energy

ACADEMIC APPOINTMENTS

2007-2009 Lectureship at Stuttgart State Academy of Art and Design (ABK) Stuttgart, Germany, Building Physics, Bachelor Architecture
since 2009 Lectures at UIBK (Building Physics (VU/UE, Bachelor/Master), Thermodynamics (VU, Bachelor/ Master), Thermofluidynamics (VU, Master), Building and System Simulation (VU, Master)
2011-2013 Lectureship at FH Kufstein (University of Applied Science), Austria, Engineering Methods, Master Facility Management
since 2012 Lectureship at FU Bolzano/University of Trento, Engineering Thermodynamics and Heat and Mass Transfer, Master Energy Engineering
2014 Lectureship at FU Bolzano, HVAC Systems and Renewable Energy Systems, Master CasaClima
2018 Lectureship at FU Bolzano, HVAC Systems, Master CasaClima
2023 Invited Member of Evaluation Panel for Research on Energy Efficiency in Buildings (Research Council of Norway RCN)

WORK EXPERIENCE

2001-2002 Free Lancer at Rio Solar Ltda., Rio de Janeiro, Brazil; Member of the organization committee of the international Congress „Rio02- World Climate & Energy Event“, Rio de Janeiro, Brazil
2002-2009 Scientific Assistant at the Institute of Thermodynamics and Thermal Engineering (ITW), University of Stuttgart; cooperation in and leadership of third party funded projects, consulting and supervision of industry and construction projects
since 2009 Post-Doc at University of Innsbruck (UIBK), Institute for Construction and Material Science, Unit for Energy Efficient Buildings
Activities:
Group Lead, Initiation, collaboration and leading of national and international research projects (IEA, EU H2020, FFG, Interreg, etc.), Initiation and lead of industry projects, supervision of PhD and Master students, administration, member of curriculum commission of Faculty for Technical Science
Head of Laboratory Group (Compact unit test rig, Thermo-Lab – Heat Pump Testing, PASSYS Test Cells, Climatic chambers, etc.)
Teaching: Thermodynamics, Modelling and Simulation of Buildings, Building and HVAC Simulation (Master Civil and Environmental Engineering), Thermodynamics (Bachelor Mechatronics), Thermofluidynamics (Master Mechatronics); Building Physics (Bachelor Civil and Environmental Engineering); Building Physics and Ecology (Bachelor Architecture); Energy Conversion and Energy Storage (Master Electronic Engineering)
since 2020 Co-Leader of Unit Energy Efficient Buildings
since Ass Prof. (Tenure Track / QV) at University of Innsbruck

2022
since 2023 Assoc. Prof. at University of Innsbruck

AWARDS AND HONORS

2002 Winner of “Otto F. Scharr-Preis für Energietechnik”
2014 Offer of Professorship (Building Performance Simulation), NTNU, Trondheim, Norway
2021 Winner of the Best Paper Award HVAC 2021 (Co-Author)
2022 Winner of the Best Paper Award Bausim 2022 (First Author)
2022 Selected as 1 of 4 out of 16 applicants for the Interview for the “Professor in Energy and Building design” in Lund University, Department of Building and Environmental Technology, Sweden
2023 Member of Scientific Committee of RENOWAVE.at

RESEARCH INTERESTS

Research Areas: Transition to sustainable energy system, Energy efficient buildings and districts, HVAC systems, Heat pumps, Renewable energy, District heating, Thermal energy storage, Thermodynamics, Heat and mass transfer, Building Physics, Modelling and Simulation, Building and HVAC Simulation, Energy Scenarios

MEMBERSHIPS AND SCIENTIFIC BOARDS

since 2003 Member of various working group within IEA
IEA SHC Task 32, Task 39, Task 44, Task 55, Task 56 (National Lead, SubTask Lead), Task 66, Task 68
IEA HPT Annex 49 (Nat. Lead), Annex 55, Annex 61 (Nat. Lead), Annex 51+
IEA EBC Annex 71, Annex 83
IEA ES Annex 35, Annex 39
since 2005 Member Arbeitskreis Langzeit-Wärmespeicher (LTES)
since 2010 Member of Expert/Developer Group Carnot (Matlab/Simlink)
since 2019 Member of IBPSA Germany, Austria
since 2010 substitute Member of Austrian Standards
since 2017 Member of Organizing Committee of BSA 2017
since 2016 Member of Scientific Committee Advanced Building Skins
since 2019 Member of Scientific Committee of Indoor Air 2020
since 2019 Member of IBPSA Germany Austria
since 2020 Member of Scientific Committee HVAC 2021
since 2020 Member of Working Group VDI 4640
since 2021 Member of Scientific Committee of EuroSun 2022 (ISES and IEA SHC)
since 2022 Member of Austrian Standards Committee 175 and 235

REVIEW: Journal:
MDPI Energies, Elsevier Applied Energy, Elsevier Applied Thermal Engineering (ATE), Elsevier Renewable Energy, Elsevier Solar Energy, Elsevier Energy and Buildings (ENB), Building and Environment (BAE), Renewable Energy (RE), Springer – Environment, Development and Sustainability (ENVI), Wiley Chemie Ingenieur Technik, International Journal of Energy Research (ER), Advance in Building Energy Research, Energy for Sustainable Development, Journal of Building Performance Simulation, etc.
Conference:
IBPSA, IBPC, EuroSun, ISES, IIR, Indoor Air, ABS, HVAC 2021 etc.

SOFTWARE: Matlab, Comsol, EES, TRNSYS, E+, IDA ICE, PHPP, GEQ, Fluent, Wufi, Delphin, Contam, CAD, Python, MS Word, Excel, Powerpoint, etc.

LANGUAGES: German (native), English (fluent), Portuguese (basic)