

ACEX2020

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Curriculum Vitae Univ.-Prof. Dr.-Ing. Tim Ricken

Working Address

Faculty of Aerospace Engineering and Geodesy
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born on March 8, 1971 in Essen, Germany



Academic education and degrees

- 2002 PhD graduation in Mechanics with summa cum laude,
 University of Essen, Germany
- 1998 Diplom graduation in Civil Engineering, University of Essen, Germany
- 1992 -1998 Studies of civil engineering, University of Essen, Germany

Professional career

- since 01/2019* – Elected Member of GAMM Managing Board
- since 10/2018* – Member of the Trust Commission and Commission for Responsibility
in Research of the Senate of the University of Stuttgart
- since 10/2018* – Deputy Member of the Senate Committee for Structure of the
University of Stuttgart
- since 03/2018* – Chair of GAMM Activity Group Computational Biomechanics
- since 08/2017* – Full Professor (W3) and Head of the Institute of Mechanics, Structural
Analysis, and Dynamics in Aero-Space Engineering, University of Stuttgart
- 2016 - 2017 – Vice-Dean of the Faculty of Architecture and Civil Engineering,
TU Dortmund University
- 2012 - 2017 – Member of University council TU Dortmund University
- 03/2011 - 07/2017 – Full Professor (W3) for Mechanics, Structural Analysis, and
Dynamics, TU Dortmund University
- 03/2006 - 02/2011 – Course Director for the international Master Program
Computational Mechanics, University of Duisburg-Essen

03/2009 - 02/2011 – Associate Professor (JP after peer Evaluation) in Computational Mechanics, University of Duisburg-Essen

03/2006 / 02/2009 – Assistant Professor (JP) in Computational Mechanics, University of Duisburg-Essen

06/2002 / 02/2006 – Postdoctoral research fellow, Institute of Mechanics (Prof. J. Schröder), University of Duisburg-Essen

05/1998 / 05/2002 – Research fellow, Institute of Mechanics (Prof. R. de Boer), University of Essen

Awards

PhD graduation – Award of outstanding achievements in the PhD-thesis, 2003

Stay abroad

06/2009 - 09/2009 – Columbia University, New York, Prof. Gerard A. Ateshian

List of the ten most important publications

- [1] Ricken T, Sindern A, Bluhm J, Widmann R, Denecke M, Gehrke T, Schmidt T C (2014) Concentration driven phase transitions in multiphase porous media with application to methane oxidation in land_II cover layers. ZAMM-Journal of Applied Mathematics and Mechanics 94(7-8):609-622.
- [2] Ricken T, Ustohalova V (2015) Modeling of thermal mass transfer in porous media with applications to the organic phase transition in land_II, Computational materials science 32(3-4):498-508
- [3] Ricken T De Boer R (2013) Multiphase flow in a capillary porous medium Computational Materials Science 28(3-4):704-713
- [4] Ustohalova V, Ricken T, Widmann R (2010) Estimation of land_II emission lifespan using process oriented modeling, Waste management 26(4):442-450
- [5] Ricken T, Dahmen U, Dirsch O (2010) A biphasic model for sinusoidal liver perfusion remodeling after outflow obstruction. Biomechanics and Modeling in Mechanobiology 9(4):435-450.
- [6] Pierce DM, Ricken T, Holzapfel GA (2013) A hyperelastic biphasic fibre-reinforced model of articular cartilage considering distributed collagen fibre orientations. continuum basis, computational aspects and applications. Computer Methods in Biomechanics and Biomedical Engineering 16(12):1344-1361.
- [7] Ateshian GA, Ricken T (2010) Multigenerational interstitial growth of biological tissues. Biomechanics and Modeling in Mechanobiology 9(6):689-702.
- [8] Lilledahl MB, Pierce DM, Ricken T, Holzapfel GA, Lange Davies C de (2011) Structural analysis of articular cartilage using multiphoton microscopy. input for biomechanical modeling. Medical Imaging, IEEE Transactions on 30(9):1635-1648.

[9] Ricken T, Schwarz A, Bluhm J (2007) A triphasic model of transversely isotropic biological tissue with applications to stress and biologically induced growth. *Computational Materials Science* 39(1):124-136.

[10] Ricken T, Bluhm J (2010) Remodeling and growth of living tissue - a multiphase theory. *Archive of Applied Mechanics* 80(5):453-465.