

CURRICULUM VITAE

Carsten Proppe (Sobiechowski), born 10.06.1969 in Berlin

RESEARCH INTERESTS		
	Computational Stochastic Mechanics, Multiscale Methods, Dynamics and Control, Fatigue and Fracture Mechanics >100 publications in international journals or conference proceedings, h-index: 17	
PROFESSIONAL EXPERIENCE		
since 2005	Karlsruhe Institute of Technology: Professor (W3) for Engineering Mechanics Member of Executive Board, Institut für Technische Mechanik	
10/02-12/04	 Bombardier Transportation GmbH, Hennigsdorf: Vehicle Dynamics Analyst Development of numerical models for ride comfort and vehicle dynamics during project and bid phase Determination of dynamical loads and execution of fatigue analysis Development and monitoring of dynamical test programmes 	
04/99-09/02	Institut für Mechanik, Leopold-Franzens-Universität, Innsbruck, Austria: <i>University Assistent</i>	
EDUCATION		
04/95-03/99	Institut für Mechanik, Otto-von-Guericke-Universität, Magdeburg: Research and Teaching Assistant Doctoral Thesis in Random Vibrations Supervisor: Prof. Dr. L. Sperling, Grade: summa cum laude	
91-95	Studies in Mathematics, TU Berlin Degree: DiplMath., Grade: sehr gut (first class honors) Focus: Differential Geometry, Functional Analysis, Complex Analysis Diploma Thesis on Affine Differential Geometry	
88-94	Studies in Physical Engineering, TU Berlin Degree: DiplIng., Grade: sehr gut (first class honours) Focus: Fluid Mechanics, Engineering Mechanics, Numerical Methods Diploma Thesis on Boundary Layer Flows	
90-91	Studies at Ecole Centrale de Lyon, France, Certificat International d'Etudes Specialisées	
06/88	Abitur (school leaving examination), Berlin, Grade: 1.2 (on a scale from 1 to 6)	
Awards		
11/00	Department Prize, Department of Mechanical Engineering, Otto-von-Guericke- Universität Magdeburg	
10/95	Erwin Stephan Prize, TU Berlin, Germany	
90-91	Erasmus grant for studies in France, EU	

ACQUIRED PROJECTS		
2014	Wind warning system for Fehmarnsund Bridge (Schleswig-Holstein, 35.000 €)	
2013	"Bestes Maschinenhaus" (VDMA, 100.000 €)	
2012	DFG: Multiscale modeling of metal foams (PR 1114/10-1, 170.000 €)	
	AIF: Surface and contact models for friction and wear (KF3000901RR2, 171.000 €)	
2011	BS-ERA: Reliability and durability of Machines and Mechanisms used in Oil Industry	
	(BS-ERA.NET 007, 50.000 €)	
2009	Meyer Werft, Papenburg: Vibration analysis of a lift gate at Ems barrage	
2008	Daimler AG: Design and construction of a test rig for an active suspension strut	
	(100.000 €)	
2007	Bosch Rexroth: Experimental modal analysis of a pump housing; Design of an actor	
	for a test bench (25.000 €)	
2006	AIF: Multi-body simulation of run ups for turbo chargers with nonlinear floating ring	
	bearings (381.900 €)	

INTERNATIONAL COOPERATIONS ____

L. Socha, (Kardinal Stefan Wyszynski Universität Warschau, Silesian Technical University, Katowice): cooperation since 1997, several joint publications; at the moment joint research on modelling and analysis of non-smooth stochastic dynamical systems

C. Baker (University of Birmingham), F. Cheli, D. Rocchi (Politecnico di Milano), N. Paradot (SNCF), A. Orellano (Bombardier Transportation): Joint state of the art paper on cross wind influence on rail and road vehicles, invited by International Association for Vehicle System Dynamics (IAVSD)

INTERNATIONAL EXPERIENCE		
since 2005	Visiting Professor, TU Budapest (2005, 2007) and TU Sofia (2006), IFMA France (2010)	
96	Research stay (three months), Prof. C. Borri, University of Florence, Italy	
91	Training (two months) at von-Kármán Institute, Brussels, Belgium: Numerical Simulation with FLUENT of the flow in a nozzle	
90-91	Studies at Ecole Centrale de Lyon, France	
LANGUAGES		

Fluent in English and French; basic knowledge in Italian

EDITORIAL AND REVIEW ACTIVITIES _____

Editorial Board Member:

International Journal of Railway Technology, ISRN Probability and Statistics, Mathematical Problems in Engineering

Reviewer:

Applied Mathematics and Computation

Archive of Applied Mechanics

Computational Materials Science

Frontiers of Structural and Civil Engineering

International Journal for Numerical Methods in Engineering

International Journal of Fracture

International Journal of Vibration and Control

International Journal of Non-Linear Mechanics

Journal of Computational and Nonlinear Dynamics (ASME)

Journal of Mechanical Engineering Science (Proc. IME, Part C)

Journal of Scientific Computing

Journal of Rail and Rapid Transit
Journal of Tribology (ASME)
Journal of Wind Engineering and Industrial Aerodynamics
Nonlinear Dynamics
Probabilistic Engineering Mechanics
Shock & Vibration
Vehicle System Dynamics
Zeitschrift für Angewandte Mathematik und Mechanik

ACADEMIC MANAGEMENT		
2019-2020	Member Executive Board, Unit III (Electrical and Mechanical Engineering), KIT	
2017-2020	Dean, Department of Mechanical Engineering Member of the Academic Senate, KIT	
2012-2017	Academic Dean, Department of Mechanical Engineering Head of Doctoral Committee Member Executive Board, Department of Mechanical Engineering, KIT	
since 2005	Member Department Assembly Erasmus coordinator, Department of Mechanical Engineering (since Winter 06/07) Member commission for studies (Winter 06/07 to Summer 17) Deputy member WG Curriculum (Winter 05/06) Director, WG Modelling & Simulation (since Winter 06/07) Member appointment committees "Railway System Technology", "Continuum Mechanics in Mechanical Engineering", "Continuum Mechanics and Material Theory", "Mathematical Statistics", "Mathematical Stochastics", "Multi Body Systems" (Universität Kassel, external member), "Non-Smooth Structural Dynamics", "Structural Dynamics"	
10/01-09/02	Member of the University Assembly and the group of non-professorial teaching staff, Academic Senate, Universität Innsbruck; deputy member, department council	

Karlsruhe, 29.03.23

Carsten Proppe