Reutlingen University
-
School of Engineering

Faculty Profiles – Mechatronics

<table>
<tr><td>Name</td><td>Prof. Dr.-Ing. Gernot Schullerus</td><td rowspan="3">  </td></tr>
<tr><td>Contact Details</td><td>E-Mail: Gernot.Schullerus@Reutlingen-University.de
Tel.: +49 7121 271-7045</td></tr>
<tr><td>Teaching Areas</td><td>Electrical Drives Control Laboratory
Electrical Drives
Motion Control
Power Electronics and Drive Control
Power Electronics Laboratory
Power electronics</td></tr>
<tr><td>Research Interests</td><td>Subjects:
Electrical drives and power converter control strategies
Optimal control of electrical drives
Energy efficient control of induction machines
Condition Monitoring in Drive Systems
Development of Electronic Components for Applications in Drive Technology
Research projects:
Dynamic energy efficient control of induction motors
Modular scalable power electronics for drive control using GaN switches
Industry Projects:
Sensorless control of synchronous generators
Automatic Parameter Identification for Asynchronous Machines
Evaluation of the Potential for Increasing the Efficiency of 3 Three-Phase Asynchronous Machines
Analysis of a Braking Method in 2Q Operation with V / f Characteristic Control
Parameter-Based Energy-Efficient Operation of an Asynchronous Machine for V / f Characteristic Control
Evaluation of the Potential for Efficiency Improvement of Three- Phase asynchronous machines</td><td></td></tr>
</table>

Publications (selected)	• Dominic, Antony; Schullerus, Gernot; Winter, Martin: Anticipative Flux Trajectories for Dynamic Energy Efficient Operation of Induction Machines. Accepted for publication in: IEEE Transportation Electrification Conference and Expo. Chicago, 2020. • Ulmer, Sabrina; Schullerus, Gernot; Sönmez, Ertuğrul: A Modular and Scalable Power Electronics Device for the Control of Electric Drives. In: 2019 20th International Symposium on Power Electronics (Ee). Novi Sad, 23.10.-26.10. S. 1–6. 2019. • Pötter, Jan; Pfost, Martin; Schullerus, Gernot: A Novel Brushless Excitation System for Synchronous Machines with a Rotating Power Converter. In: 2019 IEEE 13th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG). Sonderborg, Denmark, 23.04.-25.04. S. 1–6. 2019. • Kärcher, Thomas; Schullerus, Gernot: Correlation-Based Condition Monitoring of a Roller Chain. In: Proceedings of the First World Congress on Condition Monitorings. London, 13.06. - 16.06., Seiten 1-12, 2017. • Borisevich, Alex; Schullerus, Gernot: Energy Efficient Control of an Induction Machine Under Torque Step Changes. In: IEEE Trans. On Energy Conversion 31 (4), 1295 - 1303, 2016. • Kärcher, Thomas; Schullerus, Gernot: Models for Roller Chain Condition Monitoring. In: Proceedings of the 13th International Conference on Condition Monitoring and Machine Failure Prevention Techniques. Paris, 10.10. - 12.10., Seiten 1-12, 2016. • Petereit, Bernd; Schlienz, Ulrich; Schullerus, Gernot; Sönmez, Ertuğrul: An Integrated Power Electronics Design Project. In: EPE 2016. ECCE Europe, 18th European Conference on Power Electronics and Applications, Karlsruhe, 5 -9 September, Seiten 1-10, 2016.	

Name	Prof. Dr. rer. nat. Eberhard Binder	
Contact Details	E-Mail: Eberhard.Binder@Reutlingen-University.de Tel.: +49 7121 271-7028	
Teaching Areas	**Computer Engineering, Microcontrollers,** Microcontrollers, Computer Engineering, Embedded Systems, Fundamentals of Electrical Engineering **Micro Computer Laboratory** Microcontrollers, Embedded Systems, Automobile Bus Systems, Automotive Informatics, System Simulation	
Research Interests		
Publications		
Education		
Employment History		

Name	Prof. Dr.-Ing. Arnd Buschhaus	
Contact Details	E-Mail: Arnd.Buschhaus@Reutlingen-University.de Tel.: +49 7121 271-7072	
Teaching Areas	• Industrial robots • Production Automation • Mechanical Engineering • 3D-CAD	
Research Interests	• Innovative robotic applications • Sensor based robot control • Accuracy improvement of industrial robots • Industrial robots in the I4.0 context • Human-robot-collaboration	
Publications	**Peer-Reviewed (selection):** • BUSCHHAUS, A.; WAGNER, M.; FRANKE, J.: Inline Calibration Method for Robot Supported Process Tasks with High Accuracy requirements. In: IEEE (Hrsg.): IEEE International Conference on Advanced Intelligent Mechatronics: AIM 2017, 2017 pp. 682-687; Best Presentation Award • BUSCHHAUS, A.; KRUSEMARK, S.; KARLIDAG, E.; FRANKE, J.: Universal Fine Interpolation Algorithms for Accuracy Improvements of Industrial Robots. In: IEEE (Hrsg.): IEEE 8th International Congress on Ultra Modern Telecommunications & Control Systems: ICUMT 2016, 2016, pp. 356-362, Best Paper Award; Best Presentation Award • BUSCHHAUS, A.; APEL, N.; FRANKE, J.: Method for Vectorial Robot Movement Determination Enabling Accuracy Improvements. In: IEEE (Hrsg.): 2015 IEEE International Conference on Control, Automation and Robotics: ICCAR 2015, 2015, pp. 24–31, Best Presentation Award • BUSCHHAUS, A.; BLANK, A.; FRANKE, J.; ZIEGLER, C.: Highly Efficient Control System Enabling Robot Accuracy Improvement. In: Elsevier (Hrsg.): Procedia CIRP: 5th CIRP Conference on Assembly Technologies and Systems. CATS 2014, (Procedia CIRP), pp. 200–205 • BUSCHHAUS, A.; FRANKE, J.: Industrial Robots Accuracy Optimization in the Area of Structuring and Metallization of Three Dimensional Molded Interconnect Devices. In: NETO, P.; MOREIRA, A. P. (Hrsg.): Robotics in Smart Manufacturing: FAIM 2013. Heidelberg: Springer, 2013, pp. 179–190	
Education	• 2018: Professorship for Industrial robots and production automation, Reutlingen University • 2017: Doctor's degree (Dr.-Ing.). summa cum laude, "Highly accurate, adaptive control and closed-loop control of robot-guided processes", Friedrich-Alexander-University Erlangen-Nuremburg	

	• 2006: Dipl.-Ing. Degree of Mechanical Engineering of Friedrich-Alexander-University Erlangen-Nuremburg
Employment History	• 2006-2007: Patent attorney candidate, law firm RSW. Munich • 2007-2010: Design and project manager; Automation sector for the Automotive and Aerospace industry; KUKA Systems GmbH; Augsburg • 2010-2012: Research assistant in the area of handling and assembly technology, Institute for factory automation and production systems; Friedrich-Alexander-University Erlangen-Nuremburg • 2012-2017: Academic councillor; Member of the research group of Biomechatronics; Leader of the technology field of handling and assembly technologies, Institute for factory automation and production systems; Friedrich-Alexander-University Erlangen-Nuremburg

Name	Prof. Dr.-Ing. Christoph Haslach	
Contact Details	E-Mail: Christoph.Haslach@Reutlingen-University.de Tel.: +49 7121 271-7059	
Teaching Areas	• Digital Signal Processing Laboratory	
Research Interests		
Publications		
Education		
Employment History		

Name	Prof. Dr.-Ing. Eckhard Hennig	
Contact Details	E-Mail: Eckhard.Hennig@Reutlingen-University.de Tel.: +49 7121 271-7129	
Teaching Areas	• Digital Circuits (Mechatronics Bachelor, 2nd Semester) • Computer-Aided Design of Digital Circuits (Mechatronics Bachelor, 3rd Semester) • Modeling and Simulation of Heterogeneous Systems (Mechatronics Bachelor, 4th Semester) • Electronic Systems Design (Power Electronics and Microelectronics Master, 2nd Semester) • Laboratory Project: Design of a Power Electronic System (Power Electronics and Microelectronics Master, 1st and 2nd Semester) • ZEBRA - Technical Origami and Selected Applications of Engineering Mathematics	
Research Interests	• Design of microelectronic circuits and systems • Fast-switching GaN FET power amplifiers for class d audio and electric drive applications • Analog and mixed-signal CMOS circuit design for low-power sensor systems • Technical origami	
Publications (Selection)	• J. Tan, M. Sathyamurthy, A. Rolapp, J. Gamez, E. Hennig, E. Schäfer, R. Sommer, "A Fully Passive RFID Temperature Sensor SoC with an Accuracy of ±0.4 °C (3σ) from 0 °C to 125 °C ", in IEEE J. Radio Frequency Identification, vol. 3, no. 1, pp. 35-45, March 2019 • A. Gatzastras, D. Wrana, T. Wolfer, G. Gläser, B. Saft ; E. Schäfer, E. Hennig., "Design of Quasi-synchronous Finite State Machines Using a Local On-demand Clocking Approach," ANALOG 2018; 16th GMM/ITG-Symposium, Munich/Neubiberg, Germany, 2018, pp. 1-5. • E. Hennig, „ZEBRA - A Heteromodular Origami Technique for Constructing Large-Scale 3D Framework Architectures and Kinematic Linkages from Standard A4 Office Paper“, in Origami7, Volume One: Design, Education, History, and Science, pp. 47-62, Tarquin: St. Albans, UK, 2018 • B. Saft, E. Schäfer, A. Rolapp, E. Hennig, "An Ultra-Low Power Capacitance Extrema and Ratio Detector for Electrostatic Energy Harvesters", 41st European Solid-State Circuits Conference (ESSCIRC 2015), Graz, Sept. 2015	

Education	• 1989-1994: Dipl.-Ing. Electrical Engineering, TU Braunschweig	
Employment History	• 1995: Research Assistant, Microelectronics Center, University of Kaiserslautern, Germany • 1996-2000: Research Assistant, Fraunhofer Institute for Industrial Mathematics (ITWM), Kaiserslautern, Germany • 2000: Dr.-Ing., TU Kaiserslautern, Germany • 2000-2008: R&D Engineer, Infineon Technologies AG , Munich, Germany • 2008-2015: Scientific Strategy Manager and Research Group Leader, IMMS Institute for Microelectronics and Mechatronics Systems, Erfurt, Germany • Since Aug. 2015: Professor of Digital and Integrated Circuit Design, Robert Bosch Center for Power Electronics, Reutlingen University, Germany	

Name	Prof. Dr. rer. nat. Stefan Mack	
Contact Details	E-Mail: Stefan.Mack@Reutlingen-University.de Tel.: +49 7121 271-7070	
Teaching Areas	• Electrical Measurement Technology (Lecture and Laboratory) • Sensor Systems (Lecture and Project Work / Laboratory) • Sensor Technology (Lecture and Laboratory) • Sensor Laboratory • Optoelectronics Laboratory	
Research Interests	• Sensor Technology for Industrial, Automotive and Housing Technology • Optical and Optoelectronic Systems and Measurement Techniques • Time-of-Flight Measurement Technology • Optics- and System Simulation • Wireless Sensory Networks, Internet of Things, Industry 4.0 • Industrial Image Processing	
Publications		
Education	• Dipl. Phys. at University of Heidelberg	
Employment History	• Dr. rer. nat. at Max Planck Institute for Microstructure Physics / Martin Luther University in Halle (Saale). • MEMS Sensor Development Engineer at R. Bosch GmbH, Reutlingen • Central Research and Development of Optical Inspection Systems for Semiconductor Manufacturing at Carl Zeiss Jena GmbH • Industrial Sensors Development in the Field of Image Processing and Laser Measurement Technology at Sick AG, Waldkirch • Professor at Reutlingen University	

Name	Prof. Dr.-Ing. Antonio Notholt	
Contact Details	E-Mail: Antonio.Notholt@Reutlingen-University.de Tel.: +49 7121 271-7031	
Teaching Areas	• Control Engineering • Control Systems • Renewable Energy	
Research Interests	• Control of Off-Grid electrical power systems • Control of electrical networks • Coupling of electrical, gas and heat networks • Use of energy storage for ancillary services • Blockchain for the Energy sector	
Publications		
Education	PhD – University of Kassel, Germany, MSc. – Loughborough University, UK, BSc. – ITESM Monterrey, Mexico	
Employment History	2012-2016: System Architect – Business Unit Off-Grid & Storage – SMA Solar Technology 2006-2011: Fraunhofer Institute for Wind Energy and Energy Systems Technology (IWES)	

Name	Prof. Dr.-Ing. habil. David Pouhè	
Contact Details	E-Mail: David.Pouhe@Reutlingen-University.de Tel.: +49 7121 271-7104	
Teaching Areas	**Teaching areas**: Fundamentals of Electrical Engineering, EM Field Theory, EMC and Physic of Semi-Conductors.	
Research Interests	**Electromagnetic Field Theory, Antennas and Electromagnetic Compatibility** Application of the Inverse Method and Homogenization theory to Electromagnetics, RCS, Antennas and Wave Propagation, EMC.	
Publications	http://www.tec.reutlingen-university.de/prof-pouhe/ausgewaehlte-publikationen-prof-pouhe/	
Education		
Employment History		

Name	Prof. Dr.-Ing. Ertuğrul Sönmez	
Contact Details	E-Mail: Ertugrul.Soenmez@Reutlingen-University.de Tel.: +49 7121 271-7081	
Teaching Areas	• Semiconductor Devices • Analog Circuit Design: Basics and Bipolar/MOS Integrated Circuits • Linear and Non-Linear Circuits using Operational Amplifiers	
Research Interests	• GaN-Devices • Analog Integrated Circuits • GaN-based Integrated Power Electronics • New Resilient and Scalable Power Electronic Topologies	
Publications	**Peer-Reviewed (selection):** • E. Sönmez, U. Heinle, I. Daumiller, M. Kunze, "Efficient Power Electronics for the price of Silicon - 3D-GaN Technology for GaN-on-Silicon," PCIM Europe Conference, Nuremberg, Germany, May 2012. • E. Sönmez, U. Heinle, I. Daumiller, M. Kunze, "Efficient GaN Products for 600V Operation," PCIM Europe Conference, Nuremberg, Germany, May 2011. • U. Heinle, P. Benkart, I. Daumiller, M. Kunze, E. Sönmez, "GaN Electrochemical Probes and MEMS on Si," Proc. of Materials Research Society (MRS) Conference, San Francisco, USA, March 2008. • S. Chartier, E. Sönmez, J. Dederer, B. Schleicher, H. Schumacher, "Millimeter-Wave Si/SiGe HBT Frequency Divider Using Dynamic and Static Division Stages," Asia-Pacific Microwave Conference (APMC), Bangkok, Thailand, December 2007.	
Education	• 2014: Professorship for Semiconductor Circuits, Microelectronics, Reutlingen University • 2007: PhD degree (Dr.-Ing.) with highest honours, University of Ulm, Germany. 24GHz Multi-Functional MMICs using SiGe HBTs. • 1998: Dipl.-Ing. degree of Electrical Engineering, University of Ulm, Germany. Focus: Microelectronics	
Employment History	• 2013–2014: Micronas GmbH, Innovation Center, Senior Manager, Freiburg, Germany. • 2006–2013: MicroGaN GmbH, Management Executive, Ulm. • 2005–2006: TES Electronic Solutions GmbH, Senior Engineer, Stuttgart. • 2005–2005: ATMEL Germany GmbH, Marketing Manager, Heilbronn. • 1998–2005: University of Ulm, Competence Center "Integrated Circuits in Communications" in "Institute of Electron Devices and Circuits", Germany. Scientific staff member and teaching assistant.	

Name	Prof. Dr. rer. nat. Matthias Rätsch
Contact Details	E-Mail: Matthias.Raetsch@Reutlingen-University.de Tel.: +49 7121 271-4046
Teaching Areas	• Computational Intelligence • Machine Vision and Artificial Intelligence • Computer Science (Computer Science for Mechanical Engineers / Mechatronics • Image Processing Laboratory
Research Interests	• Image Understanding, Machine Learning, Artificial Intelligence, Cyber-Physical Systems • Human-Machine Interaction, Human-Robot-Collaboration, Personalized Assistance & Service Systems, Non-Verbal Communication, Facial / Emotional / Body & Hand-Gesture Recognition and Animation • Shape from Shading (3D Morphable Models) and Structure from Motion for Face Modeling and Analysis • RGB-D & Monocular SLAM Procedures in Collaboration with BOSCH & TUM for Autonomous Navigation / Localization
Publications (selected)	• *Development* (ICCTD), *Journal of Computers, vol. 11, no. 6, pp. 439-445* (JCP, ISSN: 1796-203X), Singapore. 2016. (**journal award**) • Huber, Z. Feng, W. Christmas, J. Kittler, M. Rätsch. Fitting 3D Morphable Models using Local Features, *IEEE International Conference on Image Processing (ICIP)*, pp 1195 - 1199, 2015, Québec City, Canada (**"top 10%" paper award**) [DOI: 10.1109/ICIP.2015.7350989] [IEEE] [Preprint PDF (arXiv)] [BMVA meeting slides] • Wittig, U. Kloos, M. Rätsch. Animation of Parameterized Facial Expressions for Collaborative Robots, *Informatics Inside Conference for Human-Centered Computing*, pp 72-73. 2015 (**award**) • Huber, J. Kittler, M. Rätsch. Bottom-up and Top-down Face Analysis based on 3D Face Models, *Informatics Inside Conference for Human-Centered Computing*, pp 138. 2014 (**award**)

Education	• 2013: Professorship for Image Understanding, Interactive Robotics, Computer Science, Reutlingen University • 2008: PhD at the Department of Computer Science of the University of Basel (Switzerland) - Work Group of Thomas Vetter (GraVis) - Face Analysis, 3D Morphable Models • 2002: Diploma in Computer Science at the Faculty of Mathematics and Natural Sciences, University of Potsdam • 1994: Mathematics, Physics and Computer Science at the University of Potsdam	
Employment History	• 2008 – 2013: Cognitec Systems GmbH - World Leader in Face Analysis • 2007 – 2010: Research Assistant at the Konrad-Zuse-Center for Information Technology Berlin (ZIB) and Hochschule Neubrandenburg - Applied Mathematics • 2001 – 2003: WiSenT GmbH - Computer Vision, Machine Learning • 1999 – 2001: CONTEX Technology GmbH - Image Processing, Machine Learning **Stays abroad:** • 2003 – 2008: Switzerland • 1992 - 1993 Great Britain **Patents and Industrial Property Rights:** • DE195 33 585: Method for Segmenting Characters Based on det. Fin. Automats for Optimal Optical Text Capture.	

<table>
<tr><td>Name</td><td>Prof. Dr. Jens Weiland</td><td rowspan="4">  </td></tr>
<tr><td>Contact Details</td><td>E-Mail: Jens.Weiland@Reutlingen-University.de
Tel.: +49 7121 271-7054</td></tr>
<tr><td>Teaching Areas</td><td>• Embedded Software
• Programming and Modeling Languages
• Software Engineering
• Operating Systems</td></tr>
<tr><td>Research Interests</td><td>Subjects:
• Embedded Systems
• Design Exploration für System/Software Architecture
• Variant-Rich and Adaptive Systems
• Model-Driven Software Development

Research projects:
• Embedded Simulink-based Product Line-Architectures (ESPA)
• Virtual Commissioning of Variant-Rich Systems (VivaSys)

Industrial Projects:
• Handling of Software Variants
• Refactoring of MATLAB Simulink Function Models
• Reengineering of Embedded Software
• Components for Variant Analysis and -Design
• Evaluation of Adaptive AUTOSAR Components</td></tr>
<tr><td>Publications</td><td>• P. Manhart; J. Weiland: A Classification of Modeling Variability in Simulink. In: Proceedings of the 8th International Workshop on Variability Modelling of Software-intensive Systems (VaMoS) 2014, 22.-24. January 2014, Nice, France, 2014, pp. 40-47.
• J. Möck; J. Weiland: Advancing Virtual Commissioning with Variant Handling. Workshop of the ASIM/GI-Expert Group STS and GMMS, 20.-21. February 2014, Reutlingen, 2014.
• M. Schulze, J. Weiland, D. Beuche: Automotive Model-Driven Development and the Challenge of Variability. In: Proceedings of the 16th International Software Product Line Conference (SPLC), 02.-07. September 2012, Salvador, Brazil, 2012, Volume 1. ACM 2012, pp 207-214, 2012.</td></tr>
</table>

Name	Prof. Dr. rer. nat. Thorsten Zenner	
Contact Details	E-Mail: Thorsten.Zenner@Reutlingen-University.de Tel.: +49 7121 271-7030	
Teaching Areas	• General Communication Technology • Networked Control Systems • Fieldbuses • Wireless Networks • Data Security • Technical Communication Laboratory • Control Technology Laboratory	
Research Interests	• Low-Energy Radio Systems • Battery-Operated Radio Systems	
Publications		
Education		
Employment History		

E&D - Electronics & Drives

Study Programme: Power and Microelectronics. Master of Science

Research topics: https://www.electronics-and-drives.de/forschung/

Name	Prof. Dr.-Ing. Jürgen Scheible	
Contact Details	E-Mail: Juergen.Scheible@Reutlingen-University.de Tel.: +49 7121 271-7089	
Teaching Areas	• Synthesis of Digital Circuits • Synthesis of Digital Circuits Laboratory • Algorithms of Design Automation • Layout Design of Integrated Circuits • Layout Design of Integrated Circuits Laboratory • Project: Chip-Design	
Research Interests	• Constraint Driven Design Flow • Methods for Automating Layout Design • Electronic Design Automation	
Publications (selection)	• Hald, J. Seelhorst, P. Herzogenrath, J. Scheible, J. Lienig: ***A New Method for the Analysis of Movement Dependent Parasitics in Full Custom Designed MEMS Sensors***; Proc. of the 14th Int. Conf. on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD 2017), Giardini Naxos - Taormina, Italy, 12.-15.06.2017, ISBN 978-1-5090-5051-2. PDF, EDA Competition Award. • V. Borisov, K. Langner, J. Scheible, B. Prautsch: ***A Novel Approach for Automatic Common-Centroid Pattern Generation***; Proc. of the 14th Int. Conf. on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD 2017), Giardini Naxos - Taormina, Italy, 12.-15.06.2017. • K. Langner, J. Scheible: ***Formal Verification of a Transistor PCell***; Proc. of the 13th Conf. on Ph.D. Research in Microelectronics and Electronics (PRIME 2017), Giardini Naxos - Taormina, Italy, 12.-15.06.2017, ISBN 978-1-5090-6507-3, pp. 205-208.	

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Education	• 09/1987: Dipl.-Ing. Electrical Engineering, University of Karlsruhe (today "KIT")	

Employment History	• 1987 - 1992: Scientific Employee, University of Karlsruhe
	• 12/1991: Dr.-Ing. Electrical Engineering, University of Karlsruhe
	• 1992 – 2010: Robert Bosch GmbH - Automotive Electronics
	  ○ Technical Trainee (2 years)
	  ○ Specialist ASIC Layout Design (4 years)
	  ○ Project Manager Hybrid Layout (2 years)
	  ○ Group Leader Pre-Development Microelectronics (3 years)
	  ○ Head of ASIC Layout Design (7 years)
	• Since 2010: Professor for Electronic Design Automation at the rbz (Reutlingen University)
	• Academic Dean of the Study Program: Power and Microelectronics
	• Vice-Dean of the Faculty	

Study Programme: Mechanical Engineering, Bachelor of Engineering and Master of Science

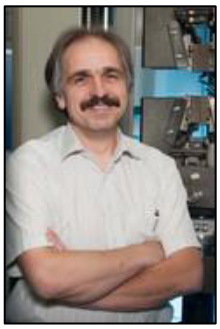
Web:

https://www.tec.reutlingen-university.de/de/bachelor/bachelor-maschinenbau/

Name	Dean of the School of Engineering Prof. Dr.-Ing. Manuchehr Parvizinia
Contact Details	E-Mail: Manuchehr.Parvizinia@Reutlingen-University.de Tel.: +49 7121 271-7000
Teaching Areas	• Computational Fluid Dynamics (CFD) • Fluid Mechanics • Power and Work Machines • Fluid Mechanics Laboratory • Power and Work Machines Laboratory
Research Interests	
Publications	
Education	• 1990-1996: Dr.-Ing. at the Department of Jet- and Turbomachines at RWTH Aachen University • Diploma in Mechanical Engineering / Turbomachines at RWTH Aachen University • Diploma in Mechanical Engineering / Propulsion Systems at Aachen University of Applied Sciences

Employment History	• 2000-2004: Development Engineer in the "Steam Turbine Technology" Department at Siemens Power Generation, Siemens AG, Mülheim an der Ruhr
	  ○ Support and Coordination of Research Projects, Development of Future Low-Pressure Turbines, Flow Simulations
	• 1996-2000: Project Engineer at BBP Environment GmbH, Gummersbach (formerly L.& C. Steinmüller GmbH, Gummersbach)
	  ○ Calculation and Configuration of Steam Generators and their Components
	• 1990-1996: Scientific Employee at the Department of Jet- and Turbomachines at RWTH Aachen University
	  ○ Working on Projects in the Field of Gas Turbine Cooling

Name	Head of Study Programmes Prof. Dr.-Ing. Hans-Gerhard Hertha-Haverkamp	
Contact Details	E-Mail: Hans.Hertha-Haverkamp@Reutlingen-University.de Tel.: +49 7121 271-7039	
Teaching Areas	• Dynamics I • Dynamics II • Dynamics III • Statics • Team Management	
Research Interests		
Publications	• Markovic, Lj., Ruzic, D., Hertha-Haverkamp, H., Kardelky, C.: *Some Applications And Constraints Of The FEM Within The Modal Analysis Of The Structures.* Tagungsband Third Serbian (28th Yu)Congress Of Theoretical And Applied Mechanics, Vlasina Lake, Serbia, 2011	
Education	• 1991: Dr.-Ing. at the Faculty of Mechanical Engineering, Department of Machine Dynamics at the University of Dortmund (TU) • 1983: Diploma in Mechanical Engineering at the Faculty of Mechanical Engineering of the University of Dortmund (TU)	
Employment History	• 1996: Professor at Reutlingen University • 2003 – today: Lecturer at the DHBW • 1991 – 1996: Daimler-Benz AG, Car Calculation • 1985 – 1991: Scientific Employee in the Field of Machine Dynamics of the University of Dortmund (TU)	

Name	Prof. Dr.-Ing. Volker Läpple	
Contact Details	E-Mail: Volker.Laepple@Reutlingen-University.de Tel.: +49 7121 271-7052	
Teaching Areas	• Fundamentals of Geometric Product Specification / Technical Drawing • Stress Analysis II • Structural Durability • Material Science and Material Testing	
Research Interests	• ISO-GPS Standard System, Geometric and Dimensional Tolerances, Tolerance Management • Material Testing, Damage Analyzes, European and International Material Standardization • Calculations in the Field of Static Strength as well as Vibration- and Operational Strength	
Publications	• Läpple, V., B. Drube, D. Wittke und C. Kammer: Werkstofftechnik-Maschinenbau Europa-Lehrmittelverlag 3. Auflage, 2012 • Läpple, V.: Wärmebehandlung des Stahls Europa-Lehrmittelverlag 10. Auflage, 2010 • Kammer, C., V. Läpple: Werkstoffkunde für Praktiker Europa-Lehrmittelverlag 7. Auflage, 2012 • Läpple, V.: Einführung in die Festigkeitslehre - Lehr und Übungsbuch Vieweg-Verlag 3. Auflage 2011 D1 –8 • Läpple, V.: Lösungsbuch zur Einführung in die Festigkeitslehre Vieweg-Verlag 3. Auflage 2011	
Education	• 1997: Dr.-Ing. in Mechanical Engineering at the Federal Material Testing Department (MPA), University of Stuttgart • 1985 – 1990: Diploma in Mechanical Engineering at the University of Stuttgart	
Employment History	• 2000: Professor at Reutlingen University • 1998 – 2000: Development of Anti-Blocking-Systems, in Particular Fatigue Testing at Robert Bosch GmbH in Schwieberdingen • 1997 - 1998 Project planning and project management at Ziemann GmbH, brewery plant construction in Ludwigsburg • Until 1997 Research associate at the State Materials Testing Institute (MPA) of the University of Stuttgart	

Name	Prof. Dr.-Ing. Michael Lauxmann	
Contact Details	E-Mail: Michael.Lauxmann@Reutlingen-University.de Tel.: +49 7121 271-7132	
Teaching Areas	• Stress Analysis • Rapid Product Development • Numerical Structural Mechanics	
Research Interests	• Biomechanics: Dynamics of Physiological and Pathological Hearing • Machine Dynamics • Moisture Transport and Microclimate in Control Units • Reliability of Power Electronics Control Units	
Publications (Selection)	**Papers** • *Lauxmann, M.; Eiber, A.; Haag, F.; Ihrle, S.:* Nonlinear Stiffness Characteristics of the Annular Ligament. The Journal of the Acoustic Society of America, Volume 136, pp. 1756-1767, 2014, [http://dx.doi.org/10.1121/1.4895696]. • *Luers, J.C.; Pazen, D.; Meister, H.; Lauxmann, M.; Eiber, A.; Beutner, D.; Hüttenbrink, K.B.:* Acoustic Effects of a Superior Semicircular Canal Dehiscence: a Temporal Bone Study. European Archives of Oto-Rhino-Laryngology and Head & Neck, 2014, doi: 10.1007/s00405-013-2866-5. • *Ihrle, S.; Lauxmann, M.; Eiber, A.; Eberhard, P.;:* Nonlinear Modelling of the Middle Ear as an Elastic Multibody System - Applying Model Order Reduction to Acousto-Structural Coupled Systems. Erweiterter Beitrag zum Sonderheft ACOMEN 2011, Journal of Computational and Applied Mathematics, Vol. 246, pp. 18-26, 2013, [http://dx.doi.org/10.1016/j.cam.2012.07.010]. • *Lauxmann, M.; Eiber, A.; Heckeler, C.; Ihrle, S.; Chatzimichalis, M.; Huber, A.; Sim, J.H.:* In-Plane Motions of the Stapes in Human Ears. The Journal of the Acoustic Society of America, Volume 132, No. 5, pp. 3280-3291, 2012, [http://dx.doi.org/10.1121/1.4756925].	
Education		
Employment History		

Name	Prof. Dr.-Ing. Helmut Nebeling	
Contact Details	E-Mail: Helmut.Nebeling@Reutlingen-University.de Tel.: +49 7121 271-7051	
Teaching Areas	• Machine Tools • Machine Tools Laboratory • Control Technology (including Hydraulics) • Production Technology	
Research Interests	• Design, Dimensioning and Optimization of Machine Tools, Components and Machining Processes • Integration of Intelligence in Processing Processes • Investigation and Calculation of Machine- and Process Properties • Design and Optimization of Machine Tools and Components • Design and Optimization of Production Facilities and Processes • Interaction between Structural Behavior and Control-Technology Influences • Investigation of Static and Dynamic Behavior • Analysis and Optimization of the Energy Efficiency and the Efficiency of Components and Production Processes	
Publications	• Nebeling, P. H.: Increasing the accuracy in grinding process; International Journal of Mechatronics and Manufacturing Systems, P. 540-552, Vol. 4 No. 6, 2011. • Nebeling, P. H.: Steigerung der Genauigkeit bei der Schleifbearbeitung, in Tawakoli, T.: 8. Seminar Moderne Schleiftechnologie und Feinstbearbeitung 2010, Vulkan-Verlag, ISBN 978-3-8027-2957-7, Villingen-Schwenningen, 2010. • Spur, G.; Uhlmann, E.: Handbuch Fertigungstechnik, Kapitel Werkzeugschleifen, Hanser-Verlag, 2012.	
Education	• Dr.-Ing. at the Department of Mechanical Engineering at RWTH Aachen University • Diploma in Mechanical Engineering at RWTH Aachen University	
Employment History	• 2010: Professor at Reutlingen University • 2005 – 2009: Head of Design and Development at Walter Maschinenbau GmbH, Tübingen • 2001 – 2005: Head of Design and Development at Witzig & Frank GmbH, Offenburg • 1997 – 2001: Group Leader Development of EMAG Maschinenfabrik GmbH, Salach	

	• 1992 – 1997: Scientific Employee at the Machine Tool Laboratory (WZL) at RWTH Aachen University	

Name	Prof. Dr.-Ing. Thomas Reibetanz	
Contact Details	E-Mail: Thomas.Reibetanz@Reutlingen-University.de Tel.: +49 7121 271-7049	
Teaching Areas	• Mechanical Technology • Production Technology • Quality Management Systems • CAQ Laboratory • Digital Factory	
Research Interests	• Simulation Technology (Factory Planning, Casting Simulation) • CAD / CAM • Quality Management	
Publications		
Education	• 1994: Dr.-Ing. at the Department of Control Technology of Machine Tools and Production Plants at the University of Stuttgart • 1987: Diploma in Mechanical Engineering at the University of Stuttgart	
Employment History	• 2000: Professor at Reutlingen University • 1996 – 2000: Head of Development at Thyssen Krupp Production Systems, Hüller Hille GmbH, Ludwigsburg^ • 1995 – 1996: Product Manager for CNCs at Daimler Benz Aerospace, Gelma Industrieelektronik GmbH, München • 1987 – 1994: Scientific Employee. at the Department of Control Technology of Machine Tools and Production Plants at the University of Stuttgart	

<table>
<tr><td>Name</td><td>Prof. Dr.-Ing. Steffen Ritter</td><td rowspan="8">  </td></tr>
<tr><td>Contact Details</td><td>E-Mail: Steffen.Ritter@Reutlingen-University.de
Tel.: +49 7121 271-7024</td></tr>
<tr><td>Teaching Areas</td><td>• Materials Science
• Design Methodology
• Fundamentals of Design
• Polymer Engineering I / Plastics
• Product Development Project PEP
• Design Project / Project Work
• R & D Project
Laboratories
• Injection Molding , EPI-Center</td></tr>
<tr><td>Research Interests</td><td>• Engineering Design
• Polymer Engineering / Plastics
• Plastic Injection Molding
• Feasible Design of Polymer Components
• 3D-Printed Tool Inserts / Fundamental Investigations</td></tr>
<tr><td>Publications</td><td>• Please see: http://www.tec.reutlingen-university.de/projekte/pep-produkt-entwicklungsprojekt/</td></tr>
<tr><td>Education</td><td>• 2001: Dr.-Ing. at the Department of Mechanical Engineering at the University of Stuttgart
• 1993: Diploma in Mechanical Engineering at the University of Stuttgart</td></tr>
<tr><td>Employment History</td><td>• 2010: Professor at Reutlingen University
• 2001 – 2010: Head of Development at Mann+Hummel GmbH
• 1999 – 2001: Founding of a Start-Up
• 1998 – 2000: Head of Development and Quality at Paul Hartmann AG
• 1994 – 1998: Scientific Employee at the Department of Polymer Engineering at the University of Stuttgart
Patents and Property Rights
• Several Patents as an Employee of Mann+Hummel GmbH
• Patent# DE 195 18 898 C2</td></tr>
</table>

Name	Prof. Dr.-Ing. Bernd Thomas	
Contact Details	E-Mail: Bernd.Thomas@Reutlingen-University.de Tel.: +49 7121 271-7041	
Teaching Areas	• Technical Thermodynamics • Heat Transfer • Thermodynamics Laboratory • Heat Transfer / Heating Technology Laboratory	
Research Interests	• Experimental Investigations of Mini-CHPP at the CHP Test Bench inside the Laboratory • Examination of Heat Pumps • Calculation and Design of Stirling Machines • Development of Thermal Engineering Calculation Models	
Publications	**Papers: 2008-2012** • Glémot, A., Crest, M., Peregrina, C., Lebars, F., Briend, Y., Tsai, Y., Thomas, B.: "Technical and economic assessment of Micro-Cogeneration Technologies for sewage Biogas", Proc. of 4th International Symposium on Energy from Biomass and Waste, San Servolo, Venedig, 12.- 15.11.2012 (zur Veröffentlichung angenommen) • Thomas, B., Wyndorps, A.: "Efficiencies and emissions of a 192 kWel Otto engine CHP-unit running on biogas at the research station "Unterer Lindenhof", Engineering in Life Sciences - Special Issue: Bio-gas, Volume 12, Issue 3, WILEY-VCH Verlag GmbH 8 Co. KGaA, Weinheim, Juni 2012, S. 306–312 • Thomas, B.: „Moderne Heiztechnik mit kleinen Blockheizkraftwerken", Ingenieurspiegel 4/2011, Public Verlagsgesellschaft mbH, Bingen, 2011, S. 33-35 • Thomas, B.: "Mini-Blockheizkraftwerke - Grundlagen, Gerätetechnik, Betriebsdaten", Monografie, Vogel-Buchverlag, Würzburg, 2. vollst. überarbeitete Aufl., 2011 • Thomas, B.: „GuD-Kraftwerk, Wärmepumpe und/oder KWK?", BWK Bd. 63 (2011) Nr. 7/8, S. 55-62 • Thomas, B., Wyndorps, A.: "Monitoring of a 192 kWel Biogas CHP unit at the research station "Unterer Lindenhof"", Beitrag im Tagungsband „Int. Congress Progress in Biogas II", Universität Hohenheim, 30.3.-1.4.2011, S. 256-261 • Thomas, B.: "Einsatzmöglichkeiten von Blockheizkraftwerken in der Wohnungswirtschaft", wohnen 1.11 – Zeitschrift der Wohnungswirtschaft	

	Bayern, ZdW Bay 1/2011, S. 4-9 • Bemmann, U., Heß, J., Kramer, M., Thomas, B.: "Energie für Wohn- und Gewerbeobjekte", BWK Bd. 63 (2011) Nr. 1/2, S. 57-58 • Thomas, B.: "Der Primärenergiefaktor für Blockheizkraftwerke", BWK Bd. 62 (2010) Nr. 3, S. 50-54 • Thomas, B,. Wyndorps, A., Bekker, M., Oechsner, H., Kelm, T.: „Bio- und Klärgas in Stirlingmotoren und Mikrogasturbinen“, EuroHeat&Power Report Blockheizkraftwerke 2010, EW Medien und Kongress GmbH, Frankfurt a.M., S. 44-50 • Thomas, B.: „Strom und Wärme von Mini- und Mikro-KWK-Anlagen: Status und Perspektiven“ Tagungsband, 15. Herbstseminar „Best Practice Energieeffizientes Bauen und Sanieren für Systemanbieter, Fachleute und Investoren“, Bern, 26.11.2009, S. 101-114 • Thomas, B., Wyndorps, A., Oechsner, H., Bekker, M., Kelm, T.: „Gekoppelte Produktion von Kraft und Wärme aus Bio-, Klär- und Deponiegas in kleinen, dezentralen Stirling-Motor- Blockheizkraftwerken“ Forschungsbericht FZKA-BWPLUS, März 2009 • Thomas, B.: „Mini- und Mikro-KWK/BHKW“ Buchbeitrag in „Energieeffizienz in Gebäuden, Jahrbuch 2009“, Pöschk, J. (Hrsg.), Verlag und Medienservice Energie VME, 2009, S. 275-281 • Thomas, B.: "Benchmark testing of Micro-CHP units", Applied Thermal Engineering 28 (2008), S. 2049-2054 • Thomas, B.: "Mini-BHKW – noch zu groß für Ein- und Zweifamilienhäuser ?", eBWK Bd. 60 (2008) •	
Education	• 1992: Dr.-Ing. at the Department of Bio- and Chemical Engineering at the University of Dortmund • Diploma in Chemical Technology at the University of Dortmund	
Employment History	• 1992 - 1997: Development Engineer in the Field of Heat Pumps at Viessmann Werke GmbH & Co. KG • 1988 – 1992: Scientific Employee at the Department of Thermodynamics at the University of Dortmund	

<table>
<tr><td>Name</td><td>Prof. Dr.-Ing. Frank Truckenmüller</td><td rowspan="5">  </td></tr>
<tr><td>Contact Details</td><td>E-Mail: Frank.Truckenmueller@Reutlingen-University.de
Tel.: +49 7121 271-7100</td></tr>
<tr><td>Teaching Areas</td><td>• Developmental Tendencies in Energy Technology
• Fundamentals of Energy Conversion
• Conventional and Regenerative Energy Technology
• Energy Systems
• Team Management</td></tr>
<tr><td>Research Interests</td><td>• ZIM Cooperation Network " Virtual Power Plant Neckar-Alb "; In Cooperation with Prof. Thomas
• DEMONSTRATOR "Virtual Power Plant Neckar-Alb": http://www.virtuelles-kraftwerk-neckar-alb.de/demonstrator/ ; Under the Management of Ellen Schur</td></tr>
<tr><td>Publications</td><td>• W. Gerschütz, M. Casy, F. Truckenmüller: Experimental Investigation of Rotating Flow Stabilities in the Last Stage of a Low-pressure Model Steam Turbine during Windag. Proc. IMechE Vol. 219 Part A: J. Power and Energy 2005
• H. Stüer, F. Truckenmüller, D. Borthwick, J. D. Denton: Aerodynamic Concept for very Large Steam Turbine Last Stages. Proceedings of ASME Turbo Expo 2005, GT2005-68746, Reno-Tahoe, Nevada, USA
Patents and Property Rights
• CN000100353031C: Turbine Blade [E]
• DE102010041808A1: Schaufelkranzsegment, Strömungsmaschine sowie Verfahren zur Herstellung [DE]
• US020080145228A1: Aero-mixing of rotating blade structures [US]
• EP000001760269A1: Lager und Dichtungsanordnung in einer Dampfturbine [DE]
• EP000001598522B1: Dampfturbinen-Komponente und Verfahren zum Kühlen einer Dampfturbine sowie Verwendung [DE]</td></tr>
<tr><td>Education</td><td>• 2002: Dr.-Ing. at the Faculty of Energy-, Process- and Biotechnology at the University of Stuttgart
• 1992: Diploma in Mechanical Engineering at the University of Stuttgart</td></tr>
</table>

Employment History	• 2012: Professor at Reutlingen University • 2009 – 2012: Siemens Energy, Mülheim (D) • 2007 – 2009: ALSTOM Power Systems GmbH, Mannheim (D) • 2005 – 2006: Siemens-Westinghouse, Orlando (USA) • 1998 – 2004: Siemens Power Generation, Mülheim (D) • 1993 – 1998: Scientific Employee at the Institute for Thermal Turbomachines at the University of Stuttgart	

<table>
<tr><td>Name</td><td>Prof. Dr.-Ing. Paul Wyndorps</td><td rowspan="8">  </td></tr>
<tr><td>Contact Details</td><td>E-Mail: Paul.Wyndorps@Reutlingen-University.de
Tel.: +49 7121 271-7050</td></tr>
<tr><td>Teaching Areas</td><td>• M-CAE I
• Machine Elements I
• Machine Elements II
• Design Project / Project Work
• M-CAE II
• CAE-Laboratory
• CAD-3D Laboratory</td></tr>
<tr><td>Research Interests</td><td>• Design & Technical Calculations
• Plant and Process Engineering- and Simulation
• Technical Program Development
• CAD Applications (Pro / ENGINEER, CREO)</td></tr>
<tr><td>Publications</td><td>• Wyndorps, P.: 3D-Konstruktion mit Pro/ENGINEER-Wildfire, Auflagen 2004, 2005, 2008, 2010.
• Wyndorps, P.: 3D-Konstruktion mit Creo Parametric, 2012.

Patents and Property Rights
• DE10015089, GB2360732: Verfahren zum Herstellen von Porenbetonkörpern
• DE10060982: Anlage zum Herstellen von Grifftaschen oder dergleichen Ausnehmungen in einem ungehärteten Betonblock aus insbesondere Porenbeton</td></tr>
<tr><td>Education</td><td>• 1996: Dr.-Ing. at RWTH Aachen University
• 1990: Diploma in Mechanical Engineering at RWTH Aachen University</td></tr>
<tr><td>Employment History</td><td>• 2000 – 2001: Head of Design (Mechanical Engineering) at DORSTENER MASCHINENFABRIK AG
• 1997 – 2000: Vice Head of Design at SCHUMAG AG, Aachen
• 1996 – 1997: Vice Head of Design at KIESERLING GmbH, Solingen
• 1990 – 1991: Avocational Lecturer for Engineering Design at Aachen University of Applied Sciences
• 1990 – 1995: Scientific Employee at the Institute for Machine Elements and Machine Design (IME) at RWTH Aachen University
• 1984 – 1990: Student Worker at the Institute for Machine Elements and Machine Design (IME) at RWTH Aachen University</td></tr>
</table>

Reutlingen Energy Center

Study Programme: Distributed Energy Systems and Energy Efficiency, Master of Science

Research topics: https://www.tec.reutlingen-university.de/de/forschung-industrie/forschung/rez-reutlinger-energiezentrum/forschung-am-rez/

Name	Head of Study Programme Prof. Dr.-Ing. Frank Truckenmüller	
Contact Details	E-Mail: Frank.Truckenmueller@Reutlingen-University.de Tel.: +49 7121 271-7100	
Teaching Areas	• Developmental Tendencies in Energy Technology • Fundamentals of Energy Conversion • Conventional and Regenerative Energy Technology • Energy Systems • Team Management	
Research Interests	• ZIM Cooperation Network " Virtual Power Plant Neckar-Alb "; In Cooperation with Prof. Thomas • DEMONSTRATOR "Virtual Power Plant Neckar-Alb": http://www.virtuelles-kraftwerk-neckar-alb.de/demonstrator/ ; Under the Management of Ellen Schur	
Publications	• W. Gerschütz, M. Casy, F. Truckenmüller: *Experimental Investigation of Rotating Flow Stabilities in the Last Stage of a Low-pressure Model Steam Turbine during Windag*. Proc. IMechE Vol. 219 Part A: J. Power and Energy 2005 • H. Stüer, F. Truckenmüller, D. Borthwick, J. D. Denton: *Aerodynamic Concept for very Large Steam Turbine Last Stages.* Proceedings of ASME Turbo Expo 2005, GT2005-68746, Reno-Tahoe, Nevada, USA **Patents and Property Rights** • CN000100353031C: Turbine Blade [E] • DE102010041808A1: Schaufelkranzsegment, Strömungsmaschine sowie Verfahren zur Herstellung [DE]	

	• US020080145228A1: Aero-mixing of rotating blade structures [US] • EP000001760269A1: Lager und Dichtungsanordnung in einer Dampfturbine [DE] • EP000001598522B1: Dampfturbinen-Komponente und Verfahren zum Kühlen einer Dampfturbine sowie Verwendung [DE]	
Education	• 2002: Dr.-Ing. at the Faculty of Energy-, Process- and Biotechnology at the University of Stuttgart • 1992: Diploma in Mechanical Engineering at the University of Stuttgart	
Employment History	• 2012: Professor at Reutlingen University • 2009 – 2012: Siemens Energy, Mülheim (D) • 2007 – 2009: ALSTOM Power Systems GmbH, Mannheim (D) • 2005 – 2006: Siemens-Westinghouse, Orlando (USA) • 1998 – 2004: Siemens Power Generation, Mülheim (D) • 1993 – 1998: Scientific Employee at the Institute for Thermal Turbomachines at the University of Stuttgart	

Name	Prof. Dr. Sabine Löbbe	
Contact Details	E-Mail: Sabine.Loebbe@Reutlingen-University.de Tel.: +497121271 – 7127, +491724162796	
Teaching Areas	• Energy Economics • Business Administration in the Energy Industry • Business Models in Distributed Energy Systems: Business Models and Marketing, Market Dynamics and Strategies • Energy Trading and risk management • Business Cooperation in the Energy Industry • Change management	

Research Interests	• Development of Business Models in the Energy Industry in the Context of Decentralized Energy Systems and Energy Efficiency
	• Customer Preferences / Consumer Behavior in Private Households, in the Industry:
	  ○ Energy Efficiency
	  ○ Heating market
	  ○ Prosumers / Energy Communities
	• Business Models and Strategies, Products and Services for Decentralized Energy Systems and Energy Efficiency, innovation processes
	• Success Factors for the Development and Realization of Strategies and Business Models in the Energy Industry	

Publications (Selection)	• **Jochum G, Löbbe S.** *Thriving Despite Disruptive Technologies: A German Utilities' Case Study*, in: Sionshansi F (editor): Future of utilities: Utilities of the future, S. 323 – 341, Academic Press, Elsevier, Amsterdam, 2016. ISBN 9780128042496, http://dx.doi.org/10.1016/B978-0-12-804249-6.00017-8. ▪ **Löbbe, S.; Hackbarth, A.** (2017): The Transformation of the German Electricity Sector and the Emergence of New Business Models in Distributed Energy Systems, in: F. Sionshansi (editor): Innovation and Disruption at the Grid's Edge - How distributed energy resources are disrupting the utility business model, Edition: first, Chapter: 15, Elsevier, 9780128117637, pp.287-318	

Education	Prof. Dr. Sabine Löbbe lectures and researches at Reutlingen University of Applied Sciences on "Distributed Energy Systems & Energy Efficiency" since 02/2015. She is a member of "Reutlingen Energy Center Distributed Energy Systems & Energy Efficiency". Her focus is on strategy development and business models in the energy industry, on marketing strategies and customer (household, industrial, commercial) behavior regarding energy issues. She is in the energy industry since 30 years. Prior to joining Reutlingen University, she ran her own consulting business, Löbbe Consulting, for 13 years and co-founded Utility Consulting Group (Germany). Prior to this, she was of Head of "Business development" within swb AG Bremen, a once municipal utility, Senior Consultant at Arthur D. Little, Germany. She started her career at VSE AG Saarbrücken (regional utility), and Saarbrücken university. She holds a PhD and a Master in business administration from Universität des Saarlandes. She lectures at Hochschule HTW Chur, Switzerland and is a trained systemic consultant.	
Employment History	• February 2015 onwards: Distributed Energy Systems and Energy Efficiency / Reutlingen Energy Center. See above for details • February 2002 until today: Löbbe Consulting. Owner. Main activities and responsibilities: Acquisition and realization of consulting mandates in strategy development, organizational development. • In Germany, Switzerland, Tunisia; Short term engagements in Uganda / Kenya (utilities) and D.R. Kongo (organizational development of GTZ bureau) • May 1997 – April 2001: swb AG, Saarbrücken Head of department "Business development"; proxy since 2000. Main activities and responsibilities: Strategy development and coordination of its realization, portfolio management, coordination and Integration of new businesses, Acquisition of participations etc.	

Name	Prof. Dr.-Ing. Debora Coll-Mayor	
Contact Details	E-Mail: Debora.Coll-Mayor@Reutlingen-University.de Tel.: +497121271 – 7127, +491724162796	
Teaching Areas	• Basics on energy conversion technologies and energy supply systems • Integration of distributed energy and storage in the energy system • Distributed ledgers and blockchain applied to the energy sector • Energy and data management systems	
Research Interests	• Application of new technologies to the energy sector and their business cases	
Publications (selection)	ARTICLES IN PEER-REVIEWED JOURNALS / CONTRIBUTIONS TO BOOKS ▪ Coll-Mayor Debora, Schmid Jürgen. "Opportunities and barriers of high-voltage direct current grids: a state of the art analysis". WIREs Energy & Environment. 2012, 1: 233-242. ▪ Coll-Mayor, D.; Pardo, D. and Perez-Donsion, M. "Methodology based on the value of lost load for evaluating economic losses due to disturbances in the power quality". Energy Policy. 2012, vol. 50, issue C, pages 407-418. ▪ Coll-Mayor, D.; Notholt, A. "Application of smart-grid concept to islanded power systems: challenges and perspectives". International Journal of Distributed Energy Resources. Volume 7, number 1, 41-56. 2011. PUBLISHED CONTRIBUTIONS TO CONFERENCES ▪ Castellanos, A.; Coll-Mayor, D. and Notholt, A. „Cryptocurrency as Guarantees of Origin: Simulating a Green Certificate Market with the Ethereum Blockchain" Published in Proceedings of the 5th IEEE International Conference on Smart Energy Grid Engineering (SEGE). Oshawa, Canada, 2017.	
Education	2006 PhD in Electrical engineering "Effect of market-driven minigrids on the frequency stabilization process of isolated middle sized power grids" Kassel University (FB 16: Elektrotechnik/Informatik) 2007 Master degree in electronics engineering University of the Balearic Islands	

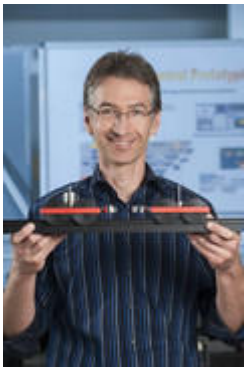
	1999 Master degree in mechanical engineering Politechnical University of Catalonia	
Employment History	Sep.2015 to Spe. 2017 – Professor for Energy economics and technologies with the University of applied sciences in Mannheim Sep. 2011- Aug. 2015 Business Development Manager and Senior Expert Engineer for Smart Grids with the SMA Solar Technology AG Aug. 2010 – Aug. 2011 Different positions at the Fraunhofer Institute für Windenergie und Energiesystemtechnik (FhG IWES) März 2010 – Jul. 2010 Invited professor at the University of Kassel Sep. 2003 – Jul. 2012 Associate Professor with the University of Balearic Islands Sep. 2002 – Sep. 2003 Junior Professor with the University of Balearic Islands	

Study Programme: International Project Engineering, Bachelor of Engineering

Web: https://www.tec.reutlingen-university.de/de/bachelor/bachelor-international-project-engineering/

Name	Head of Study Programme Prof. Dr.-Ing. Jochen Brune, MBA	
Contact Details	E-Mail: Jochen.Brune@Reutlingen-University.de Tel.: +49 7121 271-7075	
Teaching Areas	• Project Management • Project Planning • Project Leading • Change Management • Creativity-, Study- and Problem Solving Techniques	
Research Interests		
Publications		
Education		
Employment History		

Name	Prof. Dr.-Ing. Stephan Pitsch
Contact Details	E-Mail: Stephan.Pitsch@Reutlingen-University.de Tel.: +49 7121 271-7014
Teaching Areas	• Mathematics I+II • Physics • Applied Acoustics
Research Interests	• Musical Acoustics
Publications	• Pitsch, S.: „Physik für Projektingenieure – ein „blended Learning“ Konzept“, Tagung der Hochschulföderation SüdWest: Digitales Lehren und Prüfen – bewährte Lösungen und neue Herausforderungen, Hochschule der Medien Stuttgart, 2016. • Pitsch, S.; Rucz, P.; Angster, J.; Miklós, A.; Kirschmann, J.: “Scaling software for labial organ pipes”. Fortschritte der Akustik – DAGA 2013, Meran, DEGA Berlin 2013, S. 299-302. • Angster, J.;Pitsch, S.;Dubovski, Z.;Leistner, P.; Miklós, A.: „Research Organ for Pipe Organ Research at the Fraunhofer IBP in Stuttgart”. Fortschritte der Akustik – DAGA 2013, Meran, DEGA Berlin 2013, S. 295-298. • Pitsch, S.; Miklós, A.; Angster, J.: "Einfluss unterschiedlicher Strömungsbedingungen im Fuß einer Holzpfeife auf deren Klang". Fortschritte der Akustik – DAGA 2011, Düsseldorf, DEGA Berlin 2011. • Pitsch, S.; Holmberg, S.; Angster, J.: "Ventilation system design for a church pipe organ using numerical simulation and on-site measurement". Building and Environment 45, 2010, p. 2629-2643.
Education	• 2005: Dr.-Ing. at the University of Siegen (TU) • 1996: Diploma in Aerospace Engineering at the University of Stuttgart
Employment History	• 2011: Professor at Reutlingen University • 1996 – 2011: Fraunhofer-Institute of Building Physics (Department of Acoustics)



Name	Prof. Dr. Kerstin Reich	
Contact Details	E-Mail: Kerstin.Reich@Reutlingen-University.de Tel.: +49 7121 271-7108	
Teaching Areas	• International Management and Leadership • Intercultural Communication • Managing Human Resources • Marketing • Business Game • Problem Solving Techniques	
Research Interests		
Publications		
Education		
Employment History		

Name	Prof. Dr. Georg Samland	
Contact Details	E-Mail: Georg.Samland@Reutlingen-University.de Tel.: +49 7121 271-7107	
Teaching Areas		
Research Interests		
Publications		
Education		
Employment History		

Name	Prof. Dr. Tessa Taefi
Contact Details	E-Mail: Tessa.Taefi@Reutlingen-University.de Tel.: +49 7121 271- 7087
Teaching Areas	• Smart Systems • Control Engineering • Information Engineering • Electrical Engineering • Scientific Methods
Research Interests	• Automated connected vehicles • Electric mobility • Neural networks
Publications	• Taefi, T.T., Stütz, S. & Fink, A. (2017). *Assessing the cost-optimal mileage of medium-duty electric vehicles with a numeric simulation approach*. Transportation Review Part D, 56, 217-285. DOI: 10.1016/j.trd.2017.08.015 • Will D., Eckstein L., Bargen S., Taefi, T.T., Galbas, R. (2017*) State of the art analysis for Connected and Automated Driving within the SCOUT project*. ITS World Congress 2017, Montreal. • Taefi, T.T., Kreutzfeldt, J., Held, T. & Fink, A. (2016). *Supporting the Adoption of Electric Vehicles in Urban Road Freight Transport – A Multi-Criteria Analysis of Policy Measures in Germany*. Transportation Review Part A, 91, 61-79. DOI: 688 10.1016/j.tra.2016.06.003. • Taefi T.T. (2016) *Viability of electric vehicles in combined day and night delivery: a total cost of ownership example in Germany*. European Journal of Transportation and Infrastructure Research, Issue 16(4), pp 600-618. ISSN: 1567-7141 • Taefi, T.T., Kreutzfeldt, J., Held, T. & Fink, A. (2015). Strategies to Increase the Profitability of Electric Vehicles in Urban Freight Transport. In: W. Leal and R. Kotter (Ed.). *E-Mobility in Europe*, pp. 367-388. Berlin: Springer. ISBN 9783319131948
Education	• Doctorate at University of the Armed Forces Hamburg • Diploma in Electrical Engineering at the University of Applied Sciences Hamburg
Employment History	• Professor at Reutlingen University • Director of Innovation Projects Automotive at NXP Semiconductors Germany • Research Assistant and Lecturer at the University of Applied Sciences Hamburg

	• Project Management at Siemens in Germany / Singapore	