Curriculum Vitae: Juergen Wiese

Prof. Dr.-Ing. Juergen Wiese

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Professor for Urban Water Management – Wastewater

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Employment History

since 01/2016	**Professor** „Urban Water Management – Wastewater“, University of Applied Sciences Magdeburg-Stendal
10/2008-12/2015	**Managing Director,** GKU Gesellschaft für kommunale Umwelttechnik mbH, Fulda. GKU is an affiliated company of RhönEnergie Fulda-Group, a public multi-utility company. GKU is specialized on planning, construction, operation and optimization of wastewater treatment plants
10/2013-12/2015	**Managing Director,** Biothan GmbH, Fulda. Biothan is also an affiliated company of RhönEnergie Fulda-Group. Biothan is operating a large biowaste plant for organic waste (63,000 Mg/a) with a biomethane production (48 GWh/a) and a post-composting area.
08/2004-09/2008	**R&D-Manager in a plant construction company**
03/1997-07/2004	**Research Assistant**, Institute of Urban Water Management, Technical University of Kaiserslautern Germany

Education (Selection)

03/2014	**Habilitation / postdoctoral qualification**, Helmut-Schmidt University, University of the Federal Armed Forces, Hamburg, Germany
02/2004	**Ph.D. thesis (Dr.-Ing.),** Technical University of Kaiserslautern, Germany
WS96/97	**Diploma in civil engineering (Dipl.-Ing.),** Technical University of Kaiserslautern, Germany

Professional interests

- Wastewater Treatment
- Sewage Sludge Treatment
- Biowaste Treatment
- Biogas Technologies (organic waste, renewable energy crops)
- Energy efficiency (e. g., wastewater treatment plants, water treatment plants)
- Real-Time Control and Decision Support

Publications (Selection, only anaerobic digestion)

Books

J. Wiese and M. Bischoff [2013]: *Instrumentation, Control and Automation on Biogas Plants,* Book Series "Biogas Engineering and Application", Volume 3, China Agricultural University Press, editors: R. Dong and B. Raninger, ISBN 978-7-5655-0751-9, PR of China

M. Bischoff, J. Wiese and B. Raninger [2013]: *Views on the communication and cooperation needs in biogas sector between Germany and China,* Book Series "Biogas Engineering and Application", Volume 3, China Agricultural University Press, editors: R. Dong and B. Raninger, ISBN 978-7-5655-0751-9, PR of China

Internationale Peer-Reviewed Journals

J. Wiese and R. König [2009]: *From a black-box to a glass-box system – The attempt towards a plant-wide automation concept for full-scale biogas plants.* Water Science & Technology (WST), Vol. 60, No. 2, pp. 321–327, IWA Publishing, UK

J. Wiese and O. Kujawski [2008]: *Operational results of an agricultural biogas plant equipped with modern instrumentation and automation*. Water Science & Technology (WST), Vol. 57, No. 6, pp. 803-808, IWA Publishing, UK

J. Wiese and M. Häck [2006]: *Instrumentation, control and automation for full-scale manure-based biogas systems.* Water Science & Technology, Vol. 54, No. 9, pp. 1-8, IWA Publ., UK

International Conferences (Full-Paper)

J. Wiese, C. Cuhls and I. Seick [2016]: *State and Potential of Anaerobic Bio-Waste Treatment in Germany.* Proceedings, NAROSSA-Conference 2016, Magdeburg, Germany

J. Wiese, O. Kujawski, R. König, K. Dickmann and H. Andree [2008]: *Applying Instrumentation, Control and Automation for Biogas Plants – Results of Full-scale Applications.* Proceedings, World Bioenergy Congress, Sweden

J. Wiese, O. Kujawski, R. König and K. Dickmann [2008]: *Instrumentation, Control and Automation for Biogas Plants – Three Full-Scale Examples.* Proceedings, IWA-Congress „Anaerobic Digestion of biosolids and energy crops", Tunesia

J. Wiese and O. Kujawski [2007]: *Operational results of an agricultural biogas plant equipped with modern instrumentation and automation.* 11th IWA Specialist conference on anaerobic digestion "Bio-energy for our future - Renewable Energy from Waste", Brisbane, Australia

Oral presentations (Selection, only anaerobic digestion)

State and Potential of Anaerobic Bio-Waste Treatment in Germany. NAROSSA-Conference 2016, Magdeburg, Germany

Energy efficiency in Wastewater Treatment Plants, 2016 Sino-German Symposiums on Novel Materials and Techniques for Emerging Pollutants Immobilization from Aqueous Media, Tongji University Shanghai, Shanghai, China

Plant-wide Instrumentation, Control and Automation for Full-scale Biogas Plants, BIT's 2nd New Energy Forum 2012, Guangzhou, China

High performance biogas plants and related technologies, Biogas Workshop "Framework for Biogas Business Development", 2010, Zhejiang World Trade Center, Hangzhou, China

From a black-box to a glass-box system – The attempt towards a plant-wide automation concept for full-scale biogas plants. 10th IWA Conference in Instrumentation, Control and Automation 2009, Cairns, Australia

Operational results of an agricultural biogas plant equipped with modern instrumentation and automation, 11th IWA Specialist conference on anaerobic digestion "Bio-energy for our future - Renewable Energy from Waste", 2007, Brisbane, Australia