Position: **since 04/2003: Senior scientist "Industrial Biotechnology"**

since 08/2006: Scientific Manager Pilot plant facility

since 07/2014: Program Coordinator

Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB)
Dept. Bioengineering
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Overview

Dr. Joachim Venus, Senior Scientist "Industrial Biotechnology", is program coordinator for the research program "Material and energetic use of biomass" and head of the research group bio-based products.

His scientific focus is on the development of continuous processes for the production of basic chemicals - in particular lactic acid - from biogenic resources. The scale-up to a technical scale of several processing steps have to be developed for transferable solutions of bioconversion technologies based on renewable materials. For that purpose a multifunctional pilot plant was built at the site of ATB to investigate different feedstocks and bio-based products.

He has published a great deal of papers in well-known journals of those research fields. Moreover, he has taken part in numerous presentations and proceedings, since 2003, such as in "World Congress on Industrial Biotechnology and Bioprocessing", EFIB, and RRB. He works as a reviewer for more than 70 scientific journals, e.g. *Appl Biochem Biotech, Appl Microbiol Biot, Bioproc Biosyst Eng, Biotechnol Lett, Bioresource Technol, Biotechnol Progr, Eng Life Sci, Ind Crop Prod, Food Bioprod Process, J Biotechnol, J Clean Prod, Molecules, New Biotechnol, Process Biochem, Waste Manage.*

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Main Research Fields

- Industrial Biotechnology, Biorefineries, Scaling-up of Bioprocesses
- pre-treatment of biomass for microbial conversion processes, bioconversion of renewable resources
- kinetics of cell growth/product formation and modelling of fermentation processes
- development of continuous mode processes for the production of basic chemicals (e.g. lactic acid)
- operation of a pilot plant facility for the optimization of biotechnological processes

Professional development

- **Research associate/assistant** at the Brandenburg University of Technology (01/1997 – 04/2003)
- **Research associate** at University of Potsdam (01/1992 – 12/1996)
- **Research associate** at Institute of Biotechnology Potsdam (09/1988 – 12/1991)

Education

- **PhD** at TU Dresden (09/1984 – 08/1988, "Scale-up of aerobic fermentation processes in the pharmaceutical industry")
- **Dipl.-Ing. in Biotechnology** at Anhalt University of Applied Sciences Köthen (09/1980 – 08/1984)