

Dr. Birgitte K. Ahring

Washington State University

Education and Training

1977	B.S. in Biology, Department of Microbial Ecology, University of Copenhagen Denmark
1982	M.Sc. in Biology, Department of Microbial Ecology, University of Copenhagen, Denmark
1986	Ph.D. in Microbiology, Department of General Microbiology, University of Copenhagen, Denmark

Professional Experience

2008-	Director of the Center for Bioproducts and Bioenergy & Battelle Distinguished Professor, Washington State University, Pullman
2006-2008	Head of the Maxifuel Pilot Plant for Cellulosic Ethanol
2006-2008	CEO BioGasol Aps, Copenhagen, Denmark
2002-2008	Head of BST (BioScience and Technology) at the Technical University of Denmark with 60 scientists working within “Biofuels and Biochemicals” or “Biomedical Research”
2005-2008	Head of Danish Center for Biofuels with researchers from 4 universities and 5 industries.
1999-2008	Professor, Department of Biotechnology, Technical University of Denmark, making up BioCentrum and later Biosys
1997-2001	Professor, Department of Civil & Environmental Engineering, University of California, Los Angeles, USA
1995-2007	Head of the DTU Center for Microbial Physiology and Ecology
1993-1998	Associate Professor, Department of Environmental Science and Engineering, Technical University of Denmark
1991-1994	Head of The Nordic Ministerial Council's Center for Bioenergy and Environment, Department of Biotechnology, Technical University of Denmark
1992-1995	Specialist for UNDP, UNIDO and the World Bank with work periods in Tanzania, Morocco, Tunisia, Uganda, India, China, Malaysia and Indonesia
1990-1997	Consultant and Research Director, Danish Technological Institute of Denmark
1987-1988	Visiting Research Professor, Division of Environmental Health Science, School of Public Health, University of California, Los Angeles, U.S.A
1986-1990	Research Leader and Coordinator for The Nordic Ministerial Council's Program in Bioenergy (Anaerobic Digestion), Dept. of Biotechnology, Technical University of Denmark

Selected Publications – Out of a total of 205 peer-reviewed publications

1. Georgieva, TI; Hou, X; Hilstrom, T; Ahring, BK. *Enzymatic hydrolysis and ethanol fermentation of high dry matter wet-exploded wheat straw at low enzyme loading*. In: Applied Biochemistry and Biotechnology, vol:148, p.35-44 (2008).
2. Ahring, Birgitte Kiær; Westermann, Peter. *Coproduction of bioethanol with other biofuels* In: Biofuels-Berlin: Springer-verlag Berlin, 2007.
3. Soerensen, A; Teller, PJ; Hilstoem, T; Ahring, BK. *Hydrolysis of Miscanthus for bioethanol production using dilute acid pre-soaking combined with wet explosion pre-treatment and enzymatic treatment*. In: Bioresource Technology, vol:99, p.6602-7 (2008).
4. Georgieva, Tania I.; Ahring, Birgitte Kiær. *Evaluation of continuous ethanol fermentation of dilute-acid corn stover hydrolysate using thermophilic anaerobic bacterium Thermoanaerobacter BG11* In: Applied Microbiology and Biotechnology, vol: 77, p. 61-68 (2007).
5. Lissens,G.; Klinke,H.; Verstraete,W.; Ahring, Birgitte Kiær; Thomsen,A.B. *Wet oxidation pre-treatment of woody yard waste: parameter optimization and enzymatic digestibility for ethanol production* In: Journal of Chemical Technology and Biotechnology, vol: 79, p. 889-895 (2004).

6. Lu Jingquan; Gavala Hariklia N; Skiadas Ioannis V; Mladenovska Zuzana; Ahring Birgitte K. *Improving anaerobic sewage sludge digestion by implementation of a hyper-thermophilic prehydrolysis step*. In: Journal of environmental management vol: 88:881-9.
7. Hartmann, Hinrich; Ahring, Birgitte Kiær. *A novel process configuration for anerobic digestion of sourcesorted household waste using hyper-thermophilic post-treatment*In: Biotechnology and Bioengineering, vol: 90 (7), p. 830-837 (2005).
8. Ahring, Birgitte Kiær. *Perspectives for anaerobic digestion* In: Advances in Biochemical Engineering/Biotechnology, vol: 81, p. 1-30 (2003).
9. Sommer,P.; Georgieva, Tania I.; Ahring, Birgitte Kiær. *Potential for using thermophilic anaerobic bacteria for bioethanol production from hemicelluloses*. In: Biochemical Society Transactions, vol: 32, p. 283-289 (2004).
10. Clausen, Anders; Mikkelsen, Marie Just; Schrøder,I.; Ahring, Birgitte Kiær. *Cloning, sequencing, and sequence analysis of two novel plasmids from the thermophilic anaerobic bacterium Anaerocellum thermophilum* In: Plasmid, vol: 52, p. 131-138 (2004).

Synergistic Activities

1. Organizer, keynote speaker and invited speaker at more than 50 international meetings
2. Extended experiences in research management as Center Leader, Project Coordinator and Project Leader of both National and International Programs and head of many EU projects within the area of biofuels and biochemicals
3. Member of: The International Energy Agency Group on Liquid BioFuels- Task 39, Academy of Technical Sciences (ATV), The Technical Council (Teknologirådets repræsentantskab), The Board of Energinet.dk (the whole energy supply system in Denmark)
4. Founder of several companies including the DTU spin-off company BioGasol working within cellulosic ethanol.