

Literature List

Required course literature:

(we will use/ highlight parts of each reference below within the course)

Al Seadi T. (2013). Biomass resources for biogas production (Chapter 2) in: *The Biogas handbook – Science, production and applications* (2013). Edited by Arthur Wellinger, Jerry Murphy, David Baxter. IEA Bioenergy, Woodhead Publishing Series in Energy: Number 52. *Weblink will be available on the course site at Lisam.*

Angelidaki, I., *et al.* (2011). Biomethanation and its potential. Methanogenic Process: Microbiology, Pathways, Applications (Chapter 16 pages 328-347) in: *Methods in Enzymology, Methods in Methane Metabolism, Part A, Methanogenesis*, Volume 494, Elsevier Inc. ISSN 0076-6879. *Text will be available on the course site at Lisam.*

Apples, L. *et al.* (2008). Principles and potentials of the anaerobic digestion of waste-activated sludge. *Progress in Energy and Combustion Science* 34: 755-781. *Text will be available on the course site at Lisam.*

Da Costa Gomez C. (2013). Biogas as an energy option: an overview (Chapter 1) in: *The Biogas handbook – Science, production and applications* (2013). Edited by Arthur Wellinger, Jerry Murphy, David Baxter. IEA Bioenergy, Woodhead Publishing Series in Energy: Number 52. *Weblink will be available on the course site at Lisam.*

Chen, Y. *et al.* (2008). Inhibition of anaerobic digestion process: A review. *Bioresource Technology* 99: 4044-4064. *Text will be available on the course site at Lisam.*

De Mes, T.Z.D. *et al.* (2003). Methane production by anaerobic digestion of wastewater and solid wastes; paragraph 4.1-4.2 (pages 58-62), paragraph 4.3-4.6 (pages 62-86). In *Bio-methane and Bio-hydrogen – Status and perspectives of biological methane and hydrogen production*. Edited by J.H. Reith, Wijffels, R.H. and H. Barten. ISBN: 90-9017165-7. Also, suggested reading, The technology of anaerobic digestion / Waste streams / Utilization of biogas as a renewable energy source / The economics of anaerobic digestion paragraph 4.3-4.6 (pages 62-86)). *Text will be available on the course site at Lisam.*

Fermoso, F.G. *et al.* (2015). Fate of trace metals in anaerobic digestion. In: *Biogas Science and Technology: Advances in Biochemical Engineering/Biotechnology 151*. Main editor T. Scheper, Springer International Publishing Switzerland 2015. *Text will be available on the course site at Lisam.*

Ganidi, N. *et al.* (2009). Anaerobic digestion foaming causes - A review. *Bioresource Technology* 100: 5546-5554. *Text will be available on the course site at Lisam.*

International Gas Union (2015). News, views and knowledge on gas worldwide. Biogas – from refuse to energy. IGU-Biogas-report 2015 in collaboration with Energigas Sverige. Available at: <http://www.energigas.se/library/1559/igu-biogas-report-2015-webb-2.pdf> (collected 170804). *Text will be available on the course site at Lisam.*

Lebuhn, M. *et al.* (2015). Microbiology and molecular biology tools for biogas process analysis, diagnosis and control. In *Biogas Science and Technology, Advances in Biochemical Engineering/Biotechnology 151*. G.M. Guebitz *et al.* (eds), Springer International Publishing Switzerland 2015. DOI: 10.1007/978-3-319-21993-6_1. *Text available on the course site at Lisam.*

Schnürer, A., & Jarvis, Å. (2018). Microbiology of the biogas process. ISBN 978-91-576-9546-8. *Text available on the course site at Lisam.*

Schnürer, A. *et al.* (2016). Protocol for start-up and operation of CSTR biogas processes. In *Hydrocarbon and lipid microbiology protocols*, Springer Protocols Handbooks. T. J McGenity *et al.* (eds.). Springer-Verlag Berlin Heidelberg 2016. DOI: 10.1007/8623_2016_214. *Text available on the course site at Lisam.*

Schnürer, A. & Jarvis, Å (2010). Microbiological handbook for biogas plants. Swedish Waste Management U2009:03, Swedish Gas Centre Report 207. *Text available at Lisam.*