

CURRICULUM VITAE

Personal data:

Name : Irini Angelidaki
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Education:

1982: M.Sc. in Pharmacy, Aristotle University, Thessalonica, Greece
1989: M.Sc. in Chem. Eng., Technical University of Denmark, Denmark
1992: Ph.D. (Chem. Eng.), Technical University of Denmark, Denmark

Languages:

Greek: RWS-native,
English: RWS-excellent
Danish: RWS- excellent
German: R-good W-basic S-basic

Work Experience:

1989 - 92 *Ph.D student*, Department of Biotechnology, The Technical University of Denmark, Energy Agency Research Program
1990 - 95 Consultant for Danish Technological Institute, Tåstrup
1993 - 00 Consultant for the SME Company BioContractors
1992 - 98 *Assistant Professor*, Department of Environmental Science & Engineering, Technical University of Denmark
1998 - 01 *Associate Professor*, Department of Biotechnology, Technical University of Denmark
2001- 07 *Co-owner* and consultant for the company EnvironCon
2001 - *Associate Professor*, Environment & Resources DTU, Technical University of Denmark
2006- *Professor*, Institute of Environment & Resources DTU, Technical University of Denmark

Experience in:

Anaerobic microbiology and anaerobic processes
Optimization of the anaerobic process
Anammox process
Development of mathematical models for simulation of the anaerobic process, and investigation of methods for monitoring and control of the biogas process.
Development of physical, chemical, enzymatic and microbiological methods for degradation of lignocellulosic material
Microbial degradation of xenobiotic pollutants (LAS, PAH, nonylphenols, and phthalates)
Isolation and characterization of anaerobic bacteria
Molecular and immunological methods for characterization of bacteria
Biological production of hydrogen
Microbial fuel cells
Biorefineries

Memberships/other activities (current and previous):

- **Member** of the Management Committee in Anaerobic Digestion Specialist Group (IWA), since 2004.
- **Member** of the International Anaerobic Modeling Task Group (IWA), since 1997.
- **Chair** of the international task group for "Harmonization of anaerobic biodegradability, activity and inhibition bioassays", (IWA) since 2001, chairman since 2005.
- **Associate Editor** in the international journal "*Re/views in Environmental Science and Bio/Technology*" Kluwer Academic Publishers, 2001-2006.
- **Associate Editor** in the international journal "*Water Research*" Elsevier Publishers, since 2003.
- **Associate Editor** in the international journal "*Ecological Engineering and Environment Protection*", since 2004.
- **Associate Editor** in "*The Open Environmental Engineering Journal*", Bentham open; since 2007
- **Referee** for: Water Research, Biotechnology and Bioengineering, Re/views in Environmental Science and Bio/Technology, Bioresource Technology, Applied Biochemistry and Biotechnology, Waste Management, Biodegradation etc.
- **Member** of the "Research Committee" at E&R DTU, 2005-2008
- **Member** of the "Innovation Committee" at E&R DTU, 2005-2008
- **Member** of the board for "Top Research Initiative- program" for the "Bioenergy" subprogram, under the Nordic Ministerial Council, since 2009.
- **Chairman** for the panel "Products and Processes" (Env., Agri. Sciences & Spatial Planning). for the Swedish Danish Research Council, since 2008.
- **Member** of the committee at the Free Research Council (Forskning, teknologi og production, FTP)
- **Received** Brinchs Families Award – 2011 100,000 DKK for good technical research

Scientific activities:

a) Dissertation

Angelidaki I., 1992. Ph.D. Thermophilic biogas process: the effect of lipids and ammonia, Lyngby, Denmark, 82 pp.

b) Publications in ISI journals

1. Angelidaki I., Petersen S.P. and Ahring B.K. (1990). Effects of lipids on thermophilic anaerobic digestion and reduction of lipid inhibition upon addition of bentonite. *Appl. Microbiol. Biotechnol.* 33:469-472.
2. Angelidaki I., Ellegaard L. and Ahring B.K. (1992). Compact automated displacement gas metering system for measuring low gas rates from laboratory fermentors. *Biotechnol. Bioeng.* 39:351-353
3. Ahring B.K., Angelidaki I. and Johansen K. (1992). Anaerobic treatment of manure together with organic industrial waste. *Wat. Sci. Tech.* 7:311-318
4. Angelidaki I. and Ahring B.K. (1992). Effects of free long-chain fatty acids on thermophilic anaerobic digestion. *Appl. Microbiol. Biotechnol.* 37:808-812
5. Angelidaki I. and Ahring B.K. (1993). Thermophilic digestion of livestock waste: the effect of ammonia. *Appl. Microbiol. Biotechnol.* 38:560-564
6. Angelidaki I. and Ahring B.K. (1993). Effects of the clay mineral bentonite on ammonia inhibition of anaerobic thermophilic reactors degrading animal waste. *Biodegradation*, 3:409-414
7. Angelidaki I., Ellegaard L. and Ahring B.K. (1993). A mathematical model for dynamic simulation of anaerobic digestion of complex substrates: focusing on ammonia inhibition. *Biotechnol. Bioeng.* 42:159-166
8. Angelidaki I. and Ahring B.K. (1994). Anaerobic thermophilic digestion of manure at different ammonia loads: effect of temperature. *Wat. Res.* 28:727-731
9. Ahring B.K. Sandberg M. and Angelidaki I. (1995). Volatile fatty acids as indicators of process imbalance in anaerobic digestors. *Appl. Microbiol. Biotechnol.* 43:559-565
10. Angelidaki I. and Ahring B.K. (1995). Establishment and characterization of an anaerobic thermophilic (55 C) enrichment culture degrading long-chain fatty acids. *Appl. Environ. Microbiol.* 61:2442-2445
11. Angelidaki I. and Ahring B.K. (1995). Isomerization between n- and i-butyrate in anaerobic methanogenic systems. *Antonie van Leeuwenhoek.* 68:285-291
12. Ahring B.K., Garcia H., Mathrani I., and Angelidaki I. (1996). Codigestion of manure with organic toxic waste in biogas reactor. *Manag. of Urban Biodegr. Wast.* 125-132.
13. Angelidaki I., Ellegaard L. and Ahring B.K. (1996). A Mathematical model for dynamic simulation digestion of complex substrates: focusing on codigestion of manure with lipid containing substrate. *Manag. of Urban Biodegr. Was.* 132-142
14. Angelidaki I., Ahring B.K. (1997). Modelling anaerobic codigestion of manure with olive oil mill effluent. *Wat. Sci. Technol.* 36:263-270
15. Angelidaki I., Ahring B.K. (1997). Codigestion of oil mill wastewaters together with manure, household waste or sewage sludge. *Biodegradation* 8:221-226
16. Hansen K.H., Angelidaki I. and Ahring B.K. (1998). Anaerobic digestion of swine manure: inhibition by ammonia. *Wat. Res.* 32:5-12
17. Angelidaki I., Schmidt J.E., Ellegaard E. and Ahring B.K. (1998). Computerized automatic system for continuous monitoring of gas production in closed systems. *J. Microb. Meth.* 33:93-100
18. Hansen K.H., Angelidaki I. and Ahring B.K. (1999). Improved digestion of swine manure in thermophilic biogas reactors. *Wat. Res.* 33:1805-1810
19. Angelidaki, I. Ellegaard L. and Ahring B.K. (1999). A comprehensive model of anaerobic bioconversion of complex substrates to biogas. *Biotechnol. Bioeng.* 63:363-372
20. Hartmann, H., Angelidaki, I., and Ahring, B.K. (2000). Increase of anaerobic degradation of particulate organic matter in full-scale biogas plants by mechanical maceration. *Water Sci. Technol.* 41:145-153
21. Angelidaki I. and Ahring B.K. (2000). Methods for increasing the biogas potential from the recalcitrant organic matter contained in manure. *Water Sci. Technol.* 41:189-194
22. Angelidaki, I. Mogensen, A.S., and Ahring, B.K. (2000). Screening of various environments for degradation of xenobiotics typically found in organic waste. *Biodegradation* 11: 377-383
23. Pind P.F., Angelidaki I., and Ahring B.K. (2002). A novel in-situ sampling and VFA sensor technique for anaerobic reactor systems. *Wat Sci Technol.* 45: (10) 70-75
24. Batstone, D.J., Keller J., Angelidaki I., Kalyuzhny S.V., Pavlostathis, S.G., Rozzi A., Sanders W.T.M., Siegrist H., and Vavilin V.A. (2002). The IWA Anaerobic digestion model no 1. (ADM1). *Wat. Sci. Technol.* 45: 65-73
25. Angelidaki I., Ahring B. K., Deng H. and Schmidt J.E. (2002). Anaerobic digestion of olive mill effluents together with swine manure in UASB reactors. *Wat. Sci. Technol.*, 45(10) 213-218.
26. Haagen F., Mogensen A.S., Angelidaki I., and Ahring B.K. (2002). Anaerobic transformation of LAS in continuous stirred tank reactors treating sewage sludge. *Wat Sci. Technol.* 46(10) 159-165.
27. Angelidaki I. and L. Ellegaard (2003). Codigestion of manure and organic wastes in centralized biogas plants; status and future trends. *Appl. Biochem. Biotechnol.* 109: (1-3) 95-106.
28. Flotats X., Ahring B.K., and Angelidaki I. (2003). Parameter identification of thermophilic anaerobic degradation of valerate. *Appl. Biochem. Biotechnol.* 109: (1-3) 120-129.
29. Jantsch T.G., Angelidaki I., Schmidt J.E., Braña de Hvidsten B.E. and Ahring B.K. (2003). Anaerobic biodegradation of Spent Sulphite Liquor in a UASB reactor. *Bioresource Technol.* 84 (1): 15-20.
30. Pind P.F., Angelidaki I., and Ahring B.K. (2003). A new VFA technique for anaerobic reactor systems. *Biotechnol. Bioeng.* 82 (1): 54-61.
31. Pind P.F., Angelidaki I., and Ahring B.K. (2003). Dynamics of anaerobic process: effect of volatile fatty acids. *Biotechnol. Bioeng.* 82(7):791-801.
32. Batstone D., Pind, P.F., and Angelidaki I. (2003). Kinetics of thermophilic, anaerobic oxidation of straight and branched chain valerate and butyrate. *Biotechnol. Bioeng.* 84 (2): 195-204.
33. Schmidt J.E., Fitisos E. and Angelidaki I. (2003). Traditional and innovative ways for treatment of municipal wastewater. *Res. Adv. Wat. Res.* 4:1-11.
34. Hansen T.L., Svård Å, Angelidaki I., Schmidt J.E., Jansen J. and Christensen T.H. (2003). Chemical characteristics and methane potentials of source-separated and pre-treated organic municipal solid waste *Wat. Sci. Technol.* 205-208.
35. Schmidt, J.E., Angelidaki, I., Christensen, N., Batstone, D.J., Lyberatos, G., Stamatelatou, K., Lichtfouse, E., Elbisser, B., Rogers, K., Sappin-Didier, V., Denaix, L., Metzger, L., Borghi, V. & Montcada, E. (2003): Biowaste - a new European project. Bioprocessing of

- sewage sludge for safe recycling on agricultural land - BIOWASTE. *European Association of Chemistry and the Environment Newsletter*, 5, 1-6.
36. Schmidt, J.E., Angelidaki, I., Christensen, N., Batstone, D.J., Lyberatos, G., Stamatelatou, K., Lichtfouse, E., Elbisser, B., Rogers, K., Sappin-Didier, V., Denaix, L., Metzger, L., Borghi, V. & Montcada, E. (2003): Biowaste - a new European project. *Environmental Chemistry Letters*, 1(2), 3-4.
 37. Hansen T.L., Schmidt J.E., Angelidaki I., Marca E., Jansen J.C., Mosbæk H., Christensen T.H. (2004). Measurement of methane potentials of solid organic waste. *Waste Management* 24(4) 393-400.
 38. Angelidaki I. and Sanders W. (2004). Assessment of the anaerobic biodegradability of macropollutants. *Rev. Environ. Sci. Biotechnol.* 3(2):117-129.
 39. Batstone, D.J. and Angelidaki I. (2004): Application of anaerobic digestion modeling. *Ecological Engineering and Environment Protection*, (1), 44-45.
 40. Schmidt, J.E., Batstone, D.J. & Angelidaki I. (2004). Improved nitrogen removal in upflow anaerobic sludge blanket (UASB) reactors by incorporation of Anammox bacteria into the granular sludge. *Wat. Sci. Technol.* 49(11):69-76.
 41. Angelidaki I., Toräng L., Waul C.M. and Schmidt J.E. (2004). Anaerobic bioprocessing of sewage sludge, focusing on degradation of linear alkylbenzene sulfonates (LAS). *Wat. Sci. Technol.* (10) 49:115-122.
 42. Christensen N., Batstone D.J., He Z., Angelidaki I. and Schmidt J.E. (2004). Removal of polycyclic aromatic hydrocarbons (PAHs) from sewage sludge by anaerobic degradation. *Wat. Sci. Technol.* (50) 9: pp 237-244.
 43. Vavilin V.A., and Angelidaki I. (2005) 3D Distributed Model of Solid Waste Anaerobic Digestion. Effect of co-digestion enhancement by reducing in mixing levels. *Biotechnol. Bioeng.* 89: (1): 113-122.
 44. Karakashev D., Batstone D.J., and Angelidaki I. (2005). Influence of the environmental conditions on the methanogenic composition of anaerobic biogas reactors. *Appl. Environm. Microbiol.* 71(1) 331-338.
 45. Løbner T., Toräng L., Batstone D.J., Schmidt J.E., and Angelidaki I. (2005). Effects of process stability on anaerobic biodegradation of LAS. *Biotechnol. Bioeng* 759-765.
 46. Boušková A., Dohányos M., Schmidt J. E. and Angelidaki I. (2005). Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge. *Water Res.* 39/8 pp 1481-1488.
 47. Angelidaki I. Boe K. and Ellegaard (2005). Effect of operating conditions and reactor configuration on efficiency of full-scale biogas plants. *Wat Sci Technol.* 52 (1-2): 189-194.
 48. Boe K., Batstone D.J. and Angelidaki I. (2005). On-line headspace method for measuring VFA in Biogas reactors. *Wat Sci Technol.* 52 (1-2): 473-478.
 49. Steyer J.P., Bernard O., Batstone D.J. and Angelidaki I. (2006). Lessons learnt from 15 years of ICA in anaerobic digesters. *Wat. Sci. Technol.* 53(4-5):25-33.
 50. Angelidaki I. Hejnfelt A. and Ellegaard (2006). Enhanced biogas recovery by applying post digestion in large scale centralized biogas plants. *Wat. Sci. Technol.* 54 (2): 237-244.
 51. Kotsopoulos T.A., Zeng R.J. and Angelidaki I. (2006) Biohydrogen production in granular up-flow anaerobic sludge blanket (UASB) reactors with mixed cultures under hyperthermophilic temperature (70°C). *Biotechnol. Bioeng.* 93(6): 296-302.
 52. Angelidaki I. Cui J., Chen X. and Kaparaju P. (2006). Influence of Ammonia on anaerobic digestion of organic fraction of municipal solid waste in continuously stirred tank reactors. *Environ. Technol.* 27:855-861.
 53. Lui D., Zeng R.J. and Angelidaki I. (2006). Biohydrogen production by two stages fermentation of municipal solid waste. *Water Res.* 40:2230-2236.
 54. Angelidaki I., Cui J., Chen X., Ellegaard L. and Kaparaju P. (2006). Anaerobic digestion of solid waste: start up procedure for continuously fed reactor. *Water Res.* 40(14): 2621-2628.
 55. Karakashev D., Batstone D.J., Trably E. and Angelidaki I. (2006). Acetate oxidation is the dominant methanogenic pathway from acetate in the absence of Methanosaeta. *Appl. Environm. Microbiol.* 72(7):5138-5141.
 56. Flotats, J. Palatsi, B.K. Ahring and I. Angelidaki I. (2006). Identifiability study of the proteins degradation model,
 57. based on ADM1, using simultaneous batch experiments. *Wat. Sci. Technol.* 54(4)31-39.
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 60. Gelegenis J., Georgakakis D. and Angelidaki I. Christopoulou N., and Goumenaki M. (2007). Optimization of biogas production from olive mill wastewater by co-digesting with diluted poultry manure. *Applied Energy* 84(6):646-663.
 61. Gelegenis J., Georgakakis D., Angelidaki I. and Mavrisa V. (2007). Optimization of biogas production by co-digesting whey with diluted poultry manure. *Renewable Energy* 32:2147-2160.
 62. Kaparaju P, Alonso H and Angelidaki I. (2007). Effect of temperature and microbial activity on passive separation of digested cow manure. *Bioresource Technology* 99 (5), pp. 1345-1352.
 63. Karakashev D., Thomsen A.B. and Angelidaki I. (2007). Anaerobic biotechnological approaches for production of liquid energy carriers from biomass. *Biotechnol. Lett.* . 29:1005-1012.
 64. Siritwongrunson V., Zeng R.J. and Angelidaki I. (2007). Homoacetogenesis as the alternative pathway for H₂ sink during thermophilic anaerobic degradation of butyrate under the suppressed methanogenesis. *Wat. Research* 41 (18): 4204-4210.
 65. Huang L. Zeng RJ. and Angelidaki. (2008). Electricity production from pentose using a mediator-less microbial fuel cell. *Bioresource Technology.* 99(10): 4178-4184.
 66. Min B. and Angelidaki I. (2008). Importance of temperature and anodic medium composition on microbial fuel cell (MFC) performance. *Biotechnol. Lett.* 30(7): 1213-1218.
 67. Huang L. and Angelidaki I. (2008). Effect of humic acids on electricity generation integrated with xylose degradation in microbial fuel cells. *Biotechnol. Bioeng.*, 100(3): 413-422.
 68. Kaparaju P., Buendía I., Ellegaard L. and Angelidaki I. (2008). Effects of mixing on methane production during thermophilic anaerobic digestion of manure: Lab-scale & pilot scale studies. *Bioresource Technol.* 99, 4919-4928.
 69. Nielsen H.B. and Angelidaki I. (2008). Strategies for an optimized recovery of the biogas process following ammonia inhibition. *Bioresource Technol.* 99(17): 7995-8001.
 70. O-Thong S., Prasertsan P., Karakashev D., and Angelidaki I. (2008). Thermophilic fermentative hydrogen production by the newly isolated *Thermoanaerobacterium thermosaccharolyticum* PSU-2. *Int. J. Hydrogen Energy* 33 (4):1204 – 1214.

71. Zheng H., Zeng R.J., and Angelidaki I. (2008). Biohydrogen production from glucose in upflow biofilm reactors with plastic carriers under extreme-thermophilic conditions (70°C). *Biotech Bioeng.* 100(5): 1034-1038.
72. Maya-Altamira, L., Baun, A., Angelidaki I., and Schmidt J.E. (2008). Influence of substrate characteristics on methane potential in food-processing industry wastewaters. *Wat Res.* 42(8-9): 2195-2203.
73. Karakashev D., Schmidt J. E. and Angelidaki I. (2008). Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. *Wat Res.* 45(15).
74. Min B. and Angelidaki I. (2008). Innovative microbial fuel cell for electricity production from anaerobic reactors. *J Power Sources.* 180(1): 641-647.
75. Fuchedzhieva N., Karakashev D., Angelidaki I. (2008). Anaerobic biodegradation of fluoranthene in presence of surface- active compounds. *J. Hazardous Materials.* 153 (2008) 123–127
76. O-Thong S., Prasertsan P., Karakashev D., and Angelidaki I. (2008). 16S rRNA-targeted probes for specific detection of Thermoanaerobacterium spp., Thermoanaerobacterium thermosaccharolyticum, and Caldicellulosiruptor spp. by fluorescent in situ hybridization in biohydrogen producing systems. *Int. J. Hydrogen Energy* 33:6082 – 6091.
77. O-Thong S., Prasertsan P., Karakashev D., and Angelidaki I. (2008). High-rate continuous hydrogen production by Thermoanaerobacterium thermosaccharolyticum PSU-2 immobilized on heat-pretreated methanogenic granules. *In press in: Int. J. Hydrogen Energy* 33:6498 – 6508.
78. Liu D., Zeng J.R. and Angelidaki I. (2008). Enrichment and adaptation of extreme-thermophilic (70°C) hydrogen producing bacteria to organic household solid waste by repeated batch cultivation. *Int. J. Hydrogen Energy* 33:6492 – 6497.
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80. Liu D., Min B. and Angelidaki I. (2008). Biohydrogen production from household solid waste (HSW) at extreme-thermophilic temperature (70 8C) – Influence of pH and acetate concentration *Int. J. Hydrogen Energy* 33:6985–6992.
81. Boe K., Steyer J.P. and Angelidaki I. (2008). Monitoring and control of the biogas process based on propionate concentration using online VFA measurement. *Wat. Sci. Technol.*, 57(5):661-666.
82. Nielsen H.B. and Angelidaki I. (2008). Codigestion of manure and industrial organic waste at centralized biogas plants: process imbalances and limitations. *Wat. Sci. Technol.* 58:1521-1528.
83. Lu X., Zhang Y., and Angelidaki (2009). Optimization of H₂SO₄-catalyzed hydrothermal pretreatment of rapeseed straw for bioconversion to ethanol: focusing on pretreatment at high solids content. *Bioresource Technol.* 100(23)3048-3053.
84. Kaparaju P., Serrano M., Thomsen A.B., Kongjan P., and Angelidaki I. (2009). Bioethanol, biohydrogen and biogas production from wheat straw in a biorefinery concept. *Bioresource Technol.* 100(9): 2562–2568
85. Kongjan P., Min B., and Angelidaki I. (2009). Biohydrogen production from xylose at extreme thermophilic temperatures (70 °C) by mixed culture fermentation. *Wat Research* 43: 1414-1424.
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89. Boe, K. and Angelidaki, I. (2009). Serial-CSTR digester configuration for improving biogas production. *Water Res.* 43(1)166-172.
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97. Palatsi J.; Laurenzi M.; Andres M.V.; Flotats X., Nielsen H.B., Angelidaki I. (2009). Strategies for recovering inhibition caused by long-chain fatty acids on anaerobic thermophilic biogas reactors" *Bioresource Technol.* 100:4588–4596.
98. Zhao C., O-Thong S., Karakashev D., Angelidaki I., Lu W., Wang H. (2009). High yield simultaneous hydrogen and ethanol production under extreme thermophilic (70°C) mixed culture environment. *Int. J. Hydrogen Energy* 34(14): 5657-5665.
99. Boe K., Karakashev, D., Trably, E., Angelidaki, I. (2009). Effect of post digestion temperature on serial CSTR biogas reactor performance. *Water Research* 43: 669-676.
100. Lu X. and Angelidaki I. (2009). Bioethanol production from rapeseed straw after pretreatment with microwaves. Submitted to *Biomass Bioenergy*.
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- digested biofibers to improve biogas production. *Bioresource Technol.* 101 (22):8713-8717.
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 114. Luo G., Talebnia F., Karakashev D., Xie L., Zhou Q., and Angelidaki I. (2011). Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept. *Bioresource Technol.* 102:1433-1439.
 115. Zhang Y., Min B., Huang L., and Angelidaki I. (2011). Electricity generation and microbial community response to substrate changes in microbial fuel cell. *Bioresource Technol.* 102:1166-1173.
 116. Peixoto L, Min B, Martins G and Angelidaki I. (2011). In situ microbial fuel cell-based biosensor for organic carbon. *Bioelectrochemistry*, 81(2) 99-103
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 111. Abreu, AA; Alves, JI; Pereira, MA; Karakashev, D; Angelidaki (2009). Bacterial community structure of biohydrogen production process in extreme thermophilic conditions (70°C). National Congress MicroBiotec09, 28-30 November, Vilamoura, Portugal
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131. Alvarado-Morales M (2012). Life Cycle Assessment of biogas production process from *Laminaria digitata* (oral presentation). 2nd Danish Macro Algae Conference, September 2012, Grenaa, Denmark
132. Gordo COL, Dimitar Karakashev, Susan Lovstadt Holdt, Irini Angelidaki (2013) High effective harvesting of microalgae *Chlorella prothotocoides* via flocculation with cationic starch. Abstract accepted for poster presentation, International Conference on Algal Biorefinery: a potential source of food, feed, biochemical, biofuels and biofertilizers (ICAB 2013), January 10-12, Kharagpur, India
133. De Francisci D, Holdt SL, Van Wagenen J, Podevin M., Smets BF, Plósz B, Møller P, Angelidaki I. (2013). Development of an algal wastewater treatment concept, based on the selection of microalgal strains with optimal bioextraction characteristics. Abstract accepted for poster presentation, International Conference on Algal Biorefinery: a potential source of food, feed, biochemical, biofuels and biofertilizers (ICAB 2013), January 10-12, Kharagpur, India
134. Van Wagenen J, Moure Abelenda A, De Francisci D. Holdt SL, Angelidaki I (2013). Increasing the precision of microplate measurements of algal growth rate. Abstract accepted for poster presentation, International Conference on Algal Biorefinery: a potential source of food, feed, biochemical, biofuels and biofertilizers (ICAB 2013), January 10-12, Kharagpur, India
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139. A. Mazumder, S.L. Holdt, D. De Francisci, M. A. Morales, H. N. Mishra and I. Angelidaki (2014) Optimization of extraction process of crude alginate from *Sargassum muticum* by response surface methodology. Poster presentation at 5th Congress of the International Society for Applied Phycology, Australian Technology Park, Sydney, Australia, June 22-27.

e) Conferences and meetings

- 1991: **Invited speaker**, Energy Agency, Monitoring and control of biogas plants
Selected speaker, The Technical University of Denmark, 28.-29. Nov., "The first nordic workshop on bioenergy and environment"
Selected speaker, "The second nordic workshop"; 1-2 October 1992, Joensuu, Finland, "Mathematical model for dynamic simulation of digestion of livestock waste.
- 1993: **Invited speaker**, Engineers Union, "Styring og regulering af biogasreaktorer".
Selected speaker "Anaerobic Processes for Bioenergy and Environment" 25-27 Jan. Copenhagen, Denmark, "Isomerization between n- and i-butyrate in anaerobic methanogenic systems".
- 1995: **Selected speaker** "A Mathematical model for dynamic simulation digestion of complex substrates: focusing on codigestion of manure with lipid containing substrate. "Biowaste 1995" conference, 22-24 Maj, Aalborg, Denmark
- 1996: **Selected speaker** Codigestion of manure with organic industrial waste 9th European bioenergy conference & 1st European energy from biomass technology exhibition 24-25. June 1996, Copenhagen Denmark
Selected speaker Codigestion of olive mill wastewaters together with manure, household waste or sewage sludge. Global Environmental Biotechnology approaching the year 2000 conference, 15-20 July 1996, Boston, USA
Invited speaker Anaerob behandling af spildevand og fastaffald. Erfaringer i Danmark. Nordisk Biogaskonferens, 2-3 October 1996, Helsingborg, Sweden
- 1997: **Selected speaker** Modelling anaerobic codigestion of manure with olive oil mill effluent. In The 8th International

- Conference on Anaerobic Digestion, May 25-29 1997, Sendai, Japan
- 1997: **Invited guest professor.** Taught in the 3rd course of environmental engineering Lectures held were about Monitoring and controlling the biogas process and Anaerobic digestion in Denmark - Past, present and future. Furthermore, individual supervision of Ph.D. students. October 25 - November 4 1997, Lleida, Spain.
- 1999 **Invited guest teacher.** Taught for the course (two weeks) "Environmental Biotechnology" at the university of UCLA, LA, USA
- Chairman and Selected speaker,** at the "African International environmental protection symposium AiEPS 99"
- Selected reserve speaker,** at the 2th International symposium on anaerobic digestion of solid waste, June 15-17, 1999, Barcelona, page 375-380
- Invited speaker** "Anaerobic digestion" in workshop "Problems around sludge" in ISPRA in Italy 18 – 19 November 99.
- 2000 **Invited speaker.** 5th World surfactants congress. May 29 – June 2, 2000, Firenze, Italy.
- Chairman and invited speaker,** at workshop "treatment of olive mill effluents" Organised by the EU-Alternar Programme. 17-18 April, 2000 Crete, Greece.
- Selected speaker,** at the 4th International Symposium on Environmental Biotechnology. 10-12 April 2000
- Speaker and organizer,** for a DAKOFA meeting at the engineering union.
- 2001 **Selected speaker.** "9th World Congress, Anaerobic digestion 2001. Belgium 25 – 27 September.
- Chairman and Selected speaker.** IWA conference "Sludge Management: regulation, treatment, utilisation and disposal" Acapulco, 25-28 October.
- 2002 **Selected speaker.** "FAO, Anaerobic digestion 2002". IWA workshop. Moscow 18 – 22 May.
- Chairman and invited speaker and key note presentation.** ABAI-workshop (Workshop on Harmonization of Anaerobic Biodegradation, Activity and Inhibition Assays ITALY 7th and 8th June 2002.
- 2003 **Invited speaker,** Biosolids 2003, wastewater sludge as a resource, Trondheim, Norway, 23-25 June
- Chairman and Selected Speaker,** ORBIT 2003 CONFERENCE: "Biological Processing of Organics: Advances for a Sustainable Society" organised by IWA (International Water Association) 29 April – 5 May 2003, in Perth, Australia
- 2004 **Chairman and Selected speaker.** AD-2004 conference. Montreal Canada 29 August – 6 Sept.
- Selected Speaker,** Biosolids 2004, London, Nov.
- Organiser:** "Bioenergy Research in Sweden". Lund University, Sweden, 23-11-2004
- Organiser and speaker:** "Bioenergy Research in Denmark". Techn. Univ of Denmark, Lyngby, Denmark, 10-12-2004
- 2005 **Selected speaker** in Solid Waste Conference IWA conference, August, Cph.
- Organiser and speaker:** "At bygge et biogasanlæg". Techn. Univ of Denmark, Lyngby, Denmark, 10-03-2005
- Scientific, Organising Committee and Chairman** in conference in "Anaerobic digestion modelling (IWA conference)". Sept. Cph.
- Invited speaker** in International Seminar on Urban Waste Treatment, Reuse and Management DEPARTMENT OF ENVIRONMENTAL PROTECTION, TAIPEI CITY GOVERNMENT OCTOBER 30-31, 2005, Taipei, Taiwan
- Chairman and speaker** in The VIII Latin American Workshop and Symposium on Anaerobic Digestion will be held in Uruguay in October 2005.
- 2006 **Chairman, Scientific Committee and Selected Speaker.** "Conference in Bioenergy I" conference in Tomar Portugal. 5-10 Marts 2006.
- 2007 **Invited speaker:** "Fremtidens energisystemer", Workshop for "Flexible energy systems" at "Øresunds Environment Academy". 22. Januar, Cph.
- Invited speaker:** "Treatment of manure for removal of residual organic matter, phosphates and phosphate" at the "European Biogas Workshop", Workshop "The future of biogas in Europe III": Flexible energy systems" at "Øresunds Environment Academy". 14-16 June 2007, in Esbjerg Denmark
- Invited speaker:** "Biogas i Danmark: fortid, nutid og fremtid" presented at the workshop "Skånes Energiting" 19th June 2007.
- Invited speaker:** "Environmental applications in Denmark", presented at workshop in Prince of Songkla University, Hatyay, Thailand.
- Selected speaker:** Biorefinery for sustainable biofuel production from energy crops; conversion of lignocellulose to bioethanol, biohydrogen and biomethane. In: Bioenergy for our future. 11th IWA world congress on anaerobic digestion (AD11) held in Brisbane, Australia 23-27 September 2007.
- 2008 **Invited speaker:** "Biorefinery for sustainable economical fuel production", presented at the international conference "Biotechnology for sustainable development" 7-9 Jan., Pune, India
- Invited speaker:** "Thermophilic anaerobic digestion with subsequent removal of nutrients". Seminar "Bioenergy from biomass" Nicosia, Cyprus, 13-16 Feb.
- Invited speaker:** "Biorefinery for sustainable bioenergy production". Conference "Sustainable biotechnology", Braga, Portugal, 6-9 April.
- Invited speaker:** Biorefinery a sustainable sustainable way to produce biofuels. Bioenergy Workshop, June, 5-10, Valparasio, Chile
- Invited speaker:** The biogas program in Denmark, Bioenergy Workshop, Valparasio, June, 5-10, Chile.
- 2009 **Invited speaker:** "Biorefinery for sustainable fuel production and high value added products from energy crops. In proceedings: ibio BIT's 2nd Annual World Congress of Industrial Biotechnology April. 5-7 2009, Seoul, Korea
- 2010 **Invited keynote speaker:** concept as a sustainable way to produce energy and chemicals. 1st symposium on Biotechnology Applied to Lignocelluloses. March 28th to April 1st, Reims, France.
- 2011 **Invited speaker,** Biorefinery – possibilities and challenges- IV Congress of Polish Biotechnology and IV Eurobiotech, Krakow, Poland, 12-15 October, 2011
- Selected speaker,** Alge biorefinery 4th International Phycology congress, Halifax Canada, 15-20 June 2011
- Invited speaker,** Foaming in biogas reactors, Eneginet, Eritsø Denmark, August, 2011
- Invited speaker,** Titration for monitoring the biogas process, Eneginet, Eritsø Denmark, August 2011

Selected speaker, and scientific committee VFA online monitoring and control of the Anaerobic digestion process in ADSW conference in Vienna Austria, August 2011

Arranged a session in bioenergy, in Danish Micrological Society Cph, Nov, 2011

Invited speaker, Fremtidens fødevarer; Algae biorefinery, Cph, August 2011

Invited speaker, Energinet-møde, August 2011

Arrangement and speaker, 2nd yearly project meeting: Indo-Danish Collaborative Research project “High Rate Algal Biomass Production for Food, Feed, Biochemicals and Biofuels“, June 2011

Selected speaker, VFA on line monitoring and control of biogas reactors, Vienna, Austria (IRIA)

Selected speaker, Development of Titration methods for monitoring of the biogas process, August 2011 (IRIA)

Arrangement and speaker, Seminar :Ecomobility – Renewable energy for the transport sector, Copenhagen May23 2011

2013 **Invited speaker**: Presentation at the workshop: Resbiomasse fra landbru og naturarealer til biogas production: 7th May. “Hvad sker der med biomassen ved de forskellige forbehandlingsmetoder. Koldkæregård Konferencenter, Agro Food Park, Aarhus.

Speaker for the workshop: Indo-Denmark Collaboration Project entitled “High Rate Algal Biomass Production for Food, Feed, Biochemicals and Biofuels”. 10th Jan. 2013.

Invited speaker, chairperson and co-organisator for International Conference on Algal Biorefinery: A Potential Source of Food, Feed, Biochemicals, Biofuels and Biofertilizers (ICAB 2013) i. IIT Kharahpur, India 11-13 January 2013.

Supervision of students

1991- Supervisor for many students both at master and Ph.D. level within the following subjects: wastewaters and solid wastes treatment methods, aerobic/anaerobic treatment of xenobiotic compounds, microbial identification by traditional and modern identification methods in reactors, isolation and identification of new bacteria, anammox process, biohydrogen production, microbial fuel cells etc.

Educational Experience:

Teaching at the Technical University of Denmark

1993-1997 "Environmental Biotechnology" Course nr. 6345, spring.

1995 "Energy from Biomass", Course nr. 6362, spring 1995

1995 Environmental project course nr. 8859, fall 1995

1996 "Energy from Biomass", Course nr. 6362, spring 1996

1996 “Industrial Environmental Technology”, Course nr. 6347, spring 1996

1997 Course coordinator "Energy from Biomass", Course nr. 6362, spring 1997

1999-2001 Course coordinator “Anaerobic Biotechnology” Course 30261, spring 1999

2001 Course coordinator “Biotechnology and Biodiversity” Course 3000, all year

2002-2009 Course coordinator “Environmental Biotechnology”

2002- Fagpakke project, associate teacher, all year.

2006-present Course coordinator in “Natural Energy Resources”, January 3 week’s course.

2010- present Course coordinator in “Bioenergy Technologies”

Other teaching

1991-2008 Have been teaching at different courses such as: for nordic Ph.D. students, for DANIDA courses, and other training courses

2010-present Bioenergy course – Dept of Environm. Engineering, Tsinghua Uni. Beijing, China

2015- Bioenergy Technologies – Dept. of Environm. Engineering, Fudan Uni., Shanghai, China