

Biographical sketch for Conly L Hansen

A Professional preparation

B.S. (1971) Mechanical Engineering Department, Utah State University Logan, UT

M.E. (1973), Mechanical Engineering Department, Utah State University Logan, UT

Ph.D. (1980), Agricultural Engineering Department (specialty in food engineering), The Ohio State University, Columbus, OH

B. Appointments:

1973-1977 Project Engineer for United States Army (discharged as Captain), APG-EA, MD

1980-1985 Assistant Professor; Agricultural Engineering, Food Science, and Bioengineering, Ohio State University/Ohio Agriculture Research and Development Center, Wooster, OH

1985-1994 Associate Professor; Nutrition & Food Sciences, Civil & Environmental Engineering, and Biological & Irrigation Engineering, Utah State University, Logan, UT

1994-Present Professor and Graduate Program Coordinator; Nutrition, Dietetics & Food Sciences, USU. President, Hansen Energy and Environmental, Garland, UT

C. Patents & Publications

Patents (9) – some included below:

Hansen, C. L., Cheong, D.-Y., Methods for Manufacturing Hydrogen Using Anaerobic Digestion., 2010. U.S. Patent 7,540,961.

Hansen, C.S., Hansen, C. L. 2007. Upflow bioreactor having a septum and an auger and drive assembly. U.S. Patent 7,290,669

Hansen, C. L., Hansen, C. S., Watts, E. D., Pack, K. D. 2006. Continuation in part on the original patent (6,911,149). U. S. Patent 20060065593.

Hansen, C.L and C.S. Hansen. 2005. Induced Sludge Bed Anaerobic Reactor, U.S. Patent #6,911,149.

Books

Ockerman, H.W., C.L. Hansen. 2000. Animal By-Product Processing and Utilization, Technomics, Westport, CT, 523 ppg.

Batty, J.C., C.L. Hansen, S.L. Folkman. 1999. Food Engineering. Used internally for Food Engineering classes at Utah State University.

Ockerman, H.W., C.L. Hansen. 1988. Animal By-Products Handbook, Ellis Horwood, Chichester, England.

Six Book chapters

Refereed Articles (60 peer reviewed) – some recent included below:

Hansen, C.L, Zhong, J. and J. J Hansen. 2013. Anaerobic digestion of Dairy Processing Waste, Algae & Grass in pilot and full scale. Submitted to Transactions of the ASABE.

Wang, X., C.L Hansen and K. Allen. 2013. Purification of anthocyanins from canning black bean wastewater with macroporous resins. Submitted to J. of Food Science.

Wang, X., C. L Hansen and K. Allen. 2013. Identification of Anthocyanins Isolated from Black Bean Canning Wastewater by Macroporous Resin Using Optimized Conditions. Accepted, Food and Nutrition Sciences.

Jefferies, L. K, F. M. Steele, and C. L Hansen. 2012. Translocation and Cross-Contamination of Escherichia coli O157 in Beef Eye-of Round Subprimals Processed with High-Pressure Needleless Injection Journal of Food Science. Volume 77, Issue 6, pages E154–E158.

- Dustin, J. S., C. L Hansen. 2012. Completely Stirred Tank Reactor Behavior in an Unmixed Anaerobic Digester: The Induced Bed Reactor. *Water Environment Research*, Volume 84, Number 9, pp. 711-718(8).
- Dustin J. S., C. L Hansen. 2011. Performance of the Induced Bed Reactor Anaerobic Digester at Mesophilic and Thermophilic Temperatures. *Transactions of the ASABE*. 54(2): 729-740.
- Dustin, J. S., C. L Hansen and J. D. Dustin. 2011. Field Performance of the Induced Bed Reactor Anaerobic Digester. *Applied Engineering in Agriculture*. 2011 Vol. 27 No. 3 pp. 373-377.
- Cline, Taylor; N. Thomas; L. Shumway; I. Yeung; C.L Hansen; L.D. Hansen, Lee; J.C.Hansen, Jaron 2010. Method for Evaluating Anaerobic Digester Performance. *Bioresource Technology*. 101, 8623-8626.
- Wahal, S., S.Viamajala and C. L Hansen. 2010. Chemical speciation in the effluent of an anaerobic digester treating dairy waste: Implications for nutrient recovery and reuse. *Transactions of the American Society of Agricultural and Biological Engineers*. 53(5): 1727-1732.
- Dustin, J. S. C. L Hansen. 2010. Thermophilic Anaerobic Digestion Using an Induced Bed Reactor. *Transactions of the American Society of Agricultural and Biological Engineers*. In Press.
- Wu, J. and C. L Hansen. 2009. Proximate Composition of *Pleurotus ostreatus* grown in the Whey Permeate Based Medium. *Transactions of the American Society of Agricultural and Biological Engineers*. 52(4):1249-1254.
- Proceedings Papers** (56 conference proceedings papers)
- Hansen, C.L, S.B. Johnson and R.V. Davis. 2013. The economical A2 digester – anaerobic digestion followed by composting in the same vessel. Paper number: 1669191. Presented at the ASABE 2013 Annual International Meeting, Kansas, Missouri July 21 – July 24, 2013. ASABE 2950 Niles Road, St. Joseph, MI 49085-9659.
- Hansen, C.L, Zhong, J and J.S. Dustin. 2012. Food Waste Recycling for Municipalities and Food Plants Paper number:121337029, Presented at the ASABE 2012 Annual International Meeting, Dallas, Texas July 29 – August 1, 2012. ASABE 2950 Niles Road, St. Joseph, MI 49085-9659.
- 15 Posters, 36 Presentations with Abstracts and 22 Symposia taught at professional meeting**

D. Significant and/or recent honors

- Researcher of the Year, College of Family Life, USU 1993.
- Consultancy to India for the FAO of the United Nations, September 1993
- Sabbatical to Australia (Consulted to the dairy processing industry), Aug. 1995-Feb. 1996
- Chair, Food and Process Engineering Institute (international organization) 1997-1998
- Researcher of the Year, Nutrition and Food Sciences Department, USU, 2005
- Entrepreneur of the Year, Utah State University, 2005
- Researcher of the Year, Biological and Irrigation Engineering Department, USU, 2006
- Distinguished professor, College of Agriculture, Utah State University, 2006
- Stoel Rives Innovation Award, 2007
- AE50 Award given by American Society of Biological and Agricultural Engineers in 2007
- Fellow American Society of Biological and Agricultural Engineers is 2009**
- Ecopartnership sponsored by the US State Department between Qinghai, China and UT, 2011