

## **LAMBERT OTTEN, PhD, P.Eng.**

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### **LIFE PUBLICATIONS**

#### **1. Books**

##### **1a. Books Authored**

Otten, L. and E. Brubaker. 1990. Farm Electric Handbook. Published by Ontario Hydro, Toronto, Ont. (approx. 300 p)

##### **1a. Books Edited**

*Manual Practico: Tratamiento Biológico de Aguas Residuale*. Elena Izquierdo Kulich and Carlos Menéndez Gutiérrez. Edited by Lambert Otten. 2009 (ISBN 959-261-257-9)

Lagunas: Diseño, Operación y Control. Carlos Menéndez Gutiérrez and Miguel Díaz. Edited by Lambert Otten. 2008 (ISBN 959-261-257-9)

Handbook of Powder Science and Technology, 2nd Edition. Editors M.E. Fayed and L. Otten. 1997. Chapman & Hall, New York.

Handbook of Powder Science and Technology. Editors M.E. Fayed and L. Otten. Van Nostrand Reinhold, New York, 1984 [out of print]

##### **1c. Chapters in Books:**

Leilei Pan, Simon X, Yang, Fengchun Tian, Lambert Otten and Roger Hacker. 2004. Analysing Contributions of Components and Factors to Pork Odour Using Structural Learning with Forgetting Method. *In: Advances in Neural Networks - ISNN 2004*, Lecturer Notes in Computer Sciences, Vol. 3173. Eds.: Fuliang Yin, Jun Wang and Chengan Guo. Springer-Verlag, Heidelberg, Germany pp:383-388.

Otten, Lambert. 1999. Landfill Design Issues. Chapter 11 in Cleaner Production and Consumption in Eastern and Southern Africa. Edited by Nonita T. Yap. Weaver Press. Harare, Zimbabwe.

Otten, Lambert. 1999. Recycling Organic Wastes. Chapter 12 in Cleaner Production and Consumption in Eastern and Southern Africa. Edited by Nonita T. Yap. Weaver Press. Harare, Zimbabwe.

Otten, Lambert. 1999. Recycling of Recoverable Materials. Chapter 13 in Cleaner Production and Consumption in Eastern and Southern Africa. Edited by Nonita T. Yap. Weaver Press. Harare, Zimbabwe.

Otten, Lambert. 1999. Integrated Solid Waste Management. Chapter 14 in Cleaner Production and Consumption in Eastern and Southern Africa. Edited by Nonita T. Yap. Weaver Press. Harare, Zimbabwe.

Landman, J.L., V.J. Davison, R.B. Brown, G.L. Hayward and L. Otten. 1994. Modelling of a continuous peanut roasting process. In: Automatic Control of Food and Biological Processes. Developments in Food Science 36. Ed. J.J. Bimbenet, E. Dumoulin and G. Trystram. Also in: Proceedings of the ACoFoP III Symposium, Paris, France, 25-26 October, 1994:207- 214).

Otten, L. and R.B. Brown. 1988. A Single-layer Drying Equation for White Beans. In: Physical Properties of Agricultural Materials and Products. Ed. Rados Reznicek, Hemisphere Publishing Corporation. Washington, pp. 565-570.

Lesvesque, M.P., L. Otten and G.E. Timbers. 1986. Effect of Kernel Properties on Thin-Layer Drying of Shelled Corn. In Drying '86. Editor A.S. Mujumdar, Hemisphere Publication Corporation, Washington, pp. 559-566.

Mittal G.S., L. Otten and R.B. Brown. 1984. Management and Control Systems for Low-temperature Corn Drying. In Drying '84. Editor A.S. Mujumdar, Hemisphere Publishing Corporation, Washington, pp. 210-217.

Otten, L. 1974. Thermal Parameters of Agricultural Materials and Food Products, in Current Studies on the Thermophysical Properties of Foodstuffs. Issued by I.I.R., Commissions B1, C1, C2 Bressanone, Italy, 191-199.

## 2. Refereed Journal Papers

Gibson, M.J., Trevors, J., Otten, L. 2005. Population estimates of *thiobacillus thioparus* in composting biofilters by PCR analysis. Journal of Microbiological Methods.

Quiñones-Bolaños, E., Zhou, H., Soundararajan, R. and Otten, L. 2005. Water and solute transport in pervaporation hydrophilic membranes to reclaim contaminated water for micro-irrigation, Journal of Membrane Science 252 (2005) 19-28.

Otten, Lambert, Muhammad T. Afzal, and Daniel Mainville. 2004. Biofiltration of odours: Laboratory studies using butyric acid. Advances in Environmental Research 8(3-4): 397-409.

Otten, Lambert. 2001. Wet-dry composting of organic municipal solid waste: current status in Canada. Canadian Journal of Civil Engineering. 28 (Suppl. 1): 124-130.

Iwabuchi, K., Kimura, T. and Otten, L. 1999. Effect of volumetric water content on thermal properties of dairy cattle feces mixed with sawdust. Bioresource Technology 70:293-297.

Stencl, Jiri, Lambert Otten, Jana Gotthardova and Pavel Homola. 1999. Model comparison of equilibrium moisture content of prunes in the temperature range of 15 - 45°C. Journal of Stored Products Research. 35(1999):27-36

Adu, B. and L. Otten. 1996. Microwave heating and mass transfer characteristics of white beans. J. Agric. Engng Res. 64:71-78.

Adu, B. and L. Otten. 1996. Diffusion characteristics of white beans during microwave drying. J. Agric. Engng Res. 64:61-70.

Adu, B. and L. Otten. 1996. Modelling microwave heating characteristics of granular hygroscopic solids. J. of Microwave Power and Electromagnetic Energy, 30(3):43-50.

Adu, B. and L. Otten. 1996. Effect of polarization on the heat of desorption of water in dielectrics. 30. J. of Microwave Power and Electromagnetic Energy, 30(3):36-42.

Ezeike, G.O.I. and L. Otten. 1990. Two-compartment model for drying unshelled melon (egusi) seeds. Can. Agric. Eng., 31(1):

Moss, J. and L. Otten. 1989. A relationship between colour development and moisture content during roasting of peanuts. Can. Inst. Food Sci. Technol. J., 22(1):34-39.

St. John, C. and L. Otten. 1989. Thin-layer microwave drying of peanuts. Can. Agric. Eng., 31(2):265-270.

- Morrison, W.D., K.L. Laforest, I. McMillan, E. Amyot, L. Otten, and D.C.T. Pei. 1989. Growth and reproduction performance of gilts raised under supplementary infrared or microwaves. *Can. J. of Anim. Sci.*, 69:27-31.
- Otten, L., P.G. Muller, H. Tiessen, S. Khosla, F. Rey and H.A. Jackson. 1989. Energy-saving hydroponic greenhouse pilot project: Energy Aspects. *Can. Agric. Eng.*, 31(2):147-152.
- Brown, R.B. and L. Otten. 1988. A method to determine thermal properties of grain from system response analysis of a packed bed. *Int. J. Thermophysics* 9(6):1131-1139.
- Morrison, W.D., E. Amyot, I. McMillan, L. Otten and D.C.T. Pei. 1987. Effect of duration of reward upon operant heat demand of piglets receiving microwave or infrared heat. *Can. J. Anim. Sci.*, 76:903-907.
- Morrison, W.D., E. Amyot, I. McMillan, L. Otten and D.C.T. Pei. 1987. Performance of male broiler chicks exposed to heat from infrared or microwave sources. *Poultry Science* 66:1762-1765.
- Brown, R. and L. Otten. 1987. Automatic Control of a Batch-in-bin Dryer. *Can. Agric. Eng.* 29(2): 197-182.
- Tanaka, B. and L. Otten. 1987. Dehydration of Aqueous Ethanol. *Energy in Agriculture*, 6:73-76.
- Morrison, W.D., I. McMillan, L.A. Bate, L. Otten and D.C.T. Pei. 1986. Behavioral Observations and Operant Procedures Using Microwaves as a Heat Source for Young Chicks. *Poultry Science* 65:1516-1521.
- Mittal, G.S., L. Otten and R.B. Brown. 1986. Simulation and Performance of Five Air Type Solar Heated Farm Buildings. *IASTED - Int. J. of Energy Systems* 5(2):51-56.
- Mittal, G.S., L. Otten and R.B. Brown. 1985. Farm Scale Test of a Microcomputer-controlled Low-Temperature Corn Drying System. *Can. Agric. Eng.* 26(2):121-125.
- Hutchinson, Dave H. and Lambert Otten. 1984. Equilibrium Moisture Content of White Beans. *Am. Soc. of Cereal Chem.*, 61(2):155-158.
- Otten, L., R. Brown and W.S. Reid. 1984. Drying of White Beans - Effects of Temperature and Relative Humidity on Seed Coat Damage. *Can. Agric. Eng.* 26(2):101-104.
- Mittal, G. and L. Otten. 1983. Microprocessor control for low-temperature drying. *Agric. Systems*, 10:1-19.
- Otten, L., R. Brown, A.W. Gynp, C.C. St. Pierre and D.S. Smith. 1983. Emission and Performance Testing of a Crossflow Grain Dryer Without Emission Control. 25(1):111-118.
- Fayed, Abdo S. and Lambert Otten. 1983. Comparing Measured with Calculated Multiphase Flow Pressure Drop. *Oil & Gas Journal*. 81(34):136-146.
- Hutchinson, Dave and Lambert Otten. 1983. Thin-layer Drying of Soybeans and White Beans. *J. Food Technology*, 18:507-522.
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- Mittal, G.S., L. Otten and R.B. Brown. 1983. Evaluating the Performance of Solar Heated Farm Buildings. *Can. Agric. Eng.* 25(2):167-174.

- Mittal, Gauri S. and Lambert Otten. 1982. Simulation of Low-temperature Drying of corn for Ontario Conditions. *Can. Agric. Eng.* 24(2):111-118.
- Otten, L. and R.B. Brown. 1982. Low-temperature and Combination Drying in Ontario. *Can. Agric. Eng.* 24(1):51-55.
- Brown, R.B., G.N. Fulford, L. Otten and T.B. Daynard. 1981. Notes on the Suitability for Wet Milling of Corn Exposed to High Drying Temperatures at Different Moisture Contents. *Am. Soc. of Cereal Chem.*, 58(1): 75-76.
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- Johnson, Philip D.A. and Lambert Otten. 1980. Solar-Assisted Low-temperature Corn Drying in Southern Ontario. *Can. Agric. Eng.*, 22(1): 29-34.
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- Brown, R., T. Daynard, G. Fulford, L. Otten and A. Meiering. 1979. Effect of Drying Method on Grain Corn Quality. *Am. Soc. of Cereal Chem.*, 56(6): 529-532.
- Meiering, A.G., T.B. Daynard, R. Brown and L. Otten. 1977. Drier Performance and Energy Use in Corn Drying. *Can. Agric. Eng.*, 19:49-54.
- Otten, L. and A.S. Fayed. 1977. Slug Velocity and Slug Frequency Measurements in Concurrent Air/non-Newtonian Slug Flow. *Trans. Instn. Chem. Engrs.*, Vol. 55, 64-47.
- Meiering, A.G., J.H. Hofkes and L. Otten. 1977. Particulate Emission in Corn Drying. *APCA Journal*, Vol. 27, No. 6.
- Turner, G.A., M. Balasubramanian and L. Otten. 1976. The Tensile Strength of Moist Limestone Powder. Measurements by Different Apparatuses. *Powder Technology*, 15: 97-105.
- Otten, L. and A.S. Fayed. 1976. Pressure Drop and Drag Reduction in Two-Phase Non-Newtonian Slug Flow. *Can. J. of Chem. Eng.*, Vol. 54, 111-114.
- Otten, L. and G. Alan Turner. 1975. The Concentration Shunt Admittance of Spherical Shells. *Journal of Chem. Eng. of Japan*. Vol. 8, No. 5.
- Otten, L. 1974. Determination of Heat Transfer Parameters Using Frequency Response Analysis. *Can. Agric. Eng.*, 16, No. 2, 103-106.

Otten, L. and G. Alan Turner. 1974. Frequency Response Measurements of Packed Beds of Hollow Epoxy Spheres. *Journal of Chem. Eng. of Japan*, Vol. 7, No. 4, 251-254.

Turner, G. Alan and L. Otten. 1973. Values of Thermal (and other Parameters in Packed Beds. I. & E.C. Process Design and Development Quarterly, 12, 417-254.

Fayed, M.C., M.A. Saleh and L. Otten. 1971. Studies in Air Pollution in the Vicinity of Sulphuric Acid Plants. *J. of the Institute of Fuel*, Vol. XLIV, No. 362, 143-148.

## **2b. Accepted for Publication**

Leungprasert, Suchat and Lambert Otten. 2008. Biodegradation of formaldehyde-contaminated medium density fibreboard sawdust during composting of MSW. *International Journal of Environmental and Waste Management*

## **2c. Submitted for Publication**

Gibson, Michael, Jack .T. Trevors and Lambert Otten. 2005. Determining Population and Activity Rates of *Thiobacillus thioparus* in Composting Biofilters using MPN-PCR. *Submitted to J. of Chem & Biotechn. July 2005*.

Satimehin, A. A., G.O.I Ezeike, E.U. Odifboh and L.Otten. 2004. Thin layer drying characteristics of yams. *Submitted to Drying Technology. December 2005*.

## **3. Refereed Conference Proceedings (incomplete)**

Leungprasert, S., L. Otten and P. Voroney. 2004. Fate of C-14 Labelled Formaldehyde in Laboratory-scale Municipal Solid Waste Composting. In: *Proceedings of the International Symposium on Lowland Technology*. September 1-3. Bangkok, Thailand. pp. 393-398.

Ameneiros-Martinez, J.M. and L. Otten. 1999. Co-composting of municipal solid waste, manures, and sugar cane waste using a static pile system. *Proceedings of the International Composting Symposium (ICS'99),Halifax/Dartmouth, NS. Vol.1 :70-75*.

Otten, Lambert. 1992. Composting in Canada. *Proceedings of the International Solid Wastes and Public Cleansing Association (ISWA) Annual Meeting - Incineration and Biological Waste Treatment*. Amsterdam, The Netherlands, September 2-3, 1992. (pp.8-17) [INVITED PAPER]

Brown, R. and L. Otten. 1988. Determination of thermophysical properties of grain from system response analysis of a packed bed. *Proceedings of the 10th Symposium on Thermophysical Properties - Am. Soc. of Mechanical Engineers and National Bureau of Standards, Gaithersburg, Maryland*.

Otten, L. and R.B. Brown. 1985. A Single-layer Drying Equation for White Beans. *3rd International Conference - Physical Properties of Agricultural Materials Proceedings, Prague, Czechoslovakia*, pp. 671-675.

Otten, Lambert. 1974. Thermal Parameters of Agricultural Materials and Food Products. *Joint Meeting of Commissions B1, C1 and C2 of the I.I.R., Bressanone, Italy, Sept. 18-20*.

## **4. Technical Reports**

DEVELOPMENT OF COMPOST STANDARDS FOR CUBA - DRAFT PROPOSAL. Lambert Otten and José Ameneiros Martinez, CIPRO. October, 2006

Otten, L. 1990. Gorski Farm Soybean Spoilage Report #2. Bartlet & Richardes, Windsor, Ont. May 22, 1990. 8p.

Otten, L. 1989. Gorski Farm Soybean Spoilage Report #1. Bartlet & Richardes, Windsor, Ont. Dec. 26, 1989. 7p.

Muller, P.G., L. Otten, H. Tiessen, S. Koshla and H.A. Jackson. 1989. Energy-saving hydroponic greenhouse pilot project: Economic Aspects. Report published by Production Analysis Division, Policy Branch, Agriculture Canada, Ottawa (25p).

Otten, L. 1988. Field Testing of an Automatic Control System for Batch-in-Bin Dryers. Report for Process Instruments Limited, Concord, Ont. 22p.

Otten, L. 1987. Development of a Microcomputer - Based Grain Storage Control System. Report for Engineering and Statistical Research Institute, Agriculture Canada, Ottawa, Ontario. Contract File No. 38ST.01916-6-EC74.

Otten, L. 1987. Development of a Microcomputer-Based Grain Storage Control System. Report for Engineering and Statistical Research Institute, Agriculture Canada, Ottawa, Ont. Contract File No. 38ST.01916-6-EC74. (Work on the contract exceeded expectations in the areas of 'achievement of objectives', 'management of the work', and 'quality of work' - P. Dixon, Science Contracting Officer, Supply and Services Canada (letter dated Jan. 13/88)).

Muller, P.G., Tiessen, H., Otten, L., Khosla, S., Rey, F. 1987. Energy Saving Hydroponic Greenhouse Pilot Project. Final Report for Engineering and Statistical Research Centre, Contract File #34SZ.01916-4-EC66. Agriculture Canada, Ottawa, Ont. 86p.

Otten, Lambert and Marcel Levesque. 1987. Reduction of Fuel Use in Grain Drying. Prepared for Agriculture Energy Centre, OMAF, Guelph, Ont. 242p.

Otten, L. and R.B. Brown. 1987. Wheat Deterioration - Goderich Elevators Ltd. Report for Lyle Pinkney and Company Ltd. Insurance Adjusters, Goderich, Ont. 15p.

Otten, L. and D. Van Hooren. 1986. Energy Conservation in Tobacco Curing. Report for Agricultural Energy Centre, Guelph, Ont. 43 p.

Otten, L. 1986. Energy consumption and yield analysis progress reports - F86. Prepared for International Marketing and Investment Ltd., Ottawa, Ont. as part of the "Energy Savings Hydroponic Greenhouse Project" funded by Agriculture Canada, Contract file #34SZ.019.6-4-EC66, 21 p.

Otten, L. 1986. Exhaust Recovery in Tobacco Curing. Report for Agricultural Energy Centre, Ontario Ministry of Agriculture and Food, Guelph, Ont. 72p.

Otten, L. 1986. Energy Consumption Progress Report S86. Prepared for International Marketing and Involvement Ltd., Ottawa, Ont. as part of the Energy - Savings Hydroponic Greenhouse Pilot Project Progress Report for 1986 Spring Crop. Prepared for Engineering and Statistical Research Institute. Contact File 34SZ.01916-4-EC66, Agriculture Canada, Ottawa, 14p.

Otten, L. and R.B. Brown. 1986. Automatic Control of a Batch-in-Bin Dryer. Report for Agricultural Energy

Management Resources Centre, Ontario Ministry of Agriculture and Food, Guelph. 37 p.

Otten, L. 1985. Energy consumption and yield analysis progress report - S85. Prepared for International Marketing and Investment Ltd., Ottawa, Ont. as part of the "Energy Savings Hydroponic Greenhouse Project" funded by Agriculture Canada, Contact file #34SZ.01916-4-EC66, 15 p.

Otten, L. 1985. Energy Consumption Progress Report F85. Prepared for International Marketing and Investment Ltd, Ottawa, Ont. as part of the Energy Savings Hydroponic Greenhouse Pilot Project. Progress Report for 1985 Fall Crop. Prepared for Engineering and Statistical Research Institute. Contact File 34SZ.01916-4-EC66, Agriculture Canada, Ottawa, 16p.

Otten, L. 1985. Exhaust Heat Recovery in a Batch-in-Bin Dryer. Report for Agricultural Energy Management Resources Centre, Ontario Ministry of Agriculture and Food, Guelph, 53 p.

Otten, L. 1985. Fuel Ethanol Dehydration. Final Report for Engineering and Statistical Research Institute. Contact File 34SZ.01843-1-EL09. Agriculture Canada, Ottawa. 105 p.

Otten, L. 1984. Fuel Conservation in Grain Drying - Final Report. Submitted to OMAF and OME (36 pages).

Otten, L. 1984. Solar Heating of Farm Buildings. Technical Report 126-68. School of Engineering.

Otten, L. 1983. Solar Energy - Final Report. Submitted to OMAF, OME, Ontario Pork Producers Marketing Board (60 pages).

Braithwaite, L., W.D. Morrison, L. Otten and D.C.T. Pei. 1989. Rewarming Hypothermic Piglets using Microwave Radiation. Ontario Swine Research Review - 1988. OAC Publication No. 0689.

Morrison, W.D., L. LaForest, I. McMillan, L. Otten and D.C.T. Pei. 1988. Performance of gilts raised under supplementary infrared or microwave heat. Ontario Swine Research Review -1987. OAC Publication No. 0388.

Otten, Lambert. 1981. Using Biomass to Dry Crops. Notes on Agriculture. O.A.C., University of Guelph, XVII(4):21-29.

Otten, L. and R. Brown. 1980. The Quest for Improved Corn Drying. II - Experimental. Highlights of Agricultural Research in Ontario, 3(4)4-6.

Otten, Lambert. 1977. Low temperature drying for Ontario. Proceedings of "On Farm" Grain Drying Conference. Cambridge, Ont. (April 6), pp. 22-27.

## **5. Papers Read**

### **5a. Invited Presentation**

Otten, Lambert. 2008. Status of Composting in Canada. AWMA – Ontario Section. University of Guelph. March 6.

Otten, Lambert. 2007. Odours in biological waste management. Part of Course on certifying compost plant operators. The Composting Council of Canada. Dec.7

Otten, Lambert and Ameneiros Martínez, José. 2006. Compost Quality Standards Development for Cuba. Presented at the 13 Convención Científica de Ingeniería y Arquitectura, Cujae, Habana, Cuba. November 28 – December 1.

Otten, Lambert and José Ameneiros Martínez. 2006 ENVIRONMENTAL CAPACITY ENHANCEMENT PROJECT – CUBA (ECEP-C). Presented at the 13 Convención Científica de Ingeniería y Arquitectura, Cujae, Habana, Cuba. November 28 – December 1.

Otten, Lambert. 2006. Olfactory Biosensor Technology - Workshop (3 hr) presented at the International Conference on Sensing, Computing and Automation. Chongqing, China, May 8-11, 2006. (by invitation)

Tobacco Harvesting and Curing in Canada. Presented to the Guiyang Tobacco Research Institute, Guiyang, China. May 16, 2006 (by invitation)

Otten, Lambert. 2004. Biological Waste Treatment. Presented to The City of Toronto's New & Emerging Technologies Advisory Group (NETPPAG). City Hall,. Toronto, August 11.

Otten, Lambert. 2004. Composting and sustainable organic urban agriculture. Global Repair Workshop and Seminars. Guelph. January 22

Otten, Lambert. 2003. Use of compost in sustainable urban agriculture in Cuba. Presented at the Composting Council of Canada's Regional Workshop. University of Guelph. March 25, 2003. (published in Proceedings of 2003 Workshops).

Otten, Lambert. 2003. Environmental engineering in the developing world. Engineers Without Borders. Guelph. Sept. 16.

Otten, Lambert. 2001. Composting. Presentation at the Management of Organic Wastes Workshop. CSAE/SCGE-NABEC and AIC 2001 Meeting. Guelph, Ontario. July 8-12, 2001.

Otten, Lambert and Jan Jofriet. 2000. Biological Engineering at Guelph - Past Successes and Future Challenges. Presented at NABEC2000 July 30 - Aug 2, Ithaca, NY.

Otten, Lambert. 2000. Integrated Solid Waste Management Options for Libya. Presented to Environment Public Authority and the Institute for Industrial Research. Invited by Dr. Ehtuish F. Ehtuish, Secretary of Peoples Committee, Tripoli, Libya. July, 2000.

Otten, Lambert. 2000. Environmental Engineering Education in the 21st Century. Presented to Environment Public Authority. Invited by Dr. Ehtuish F. Ehtuish, Secretary of Peoples Committee, Tripoli, Libya. July, 2000.

Otten, Lambert. 1998. The Role of Recycling Organic Wastes in Integrated Solid Waste Management. ISPJAE, Havana Febr.

Otten, L. 1997. University-Industry Linkages in Environmental Engineering. Proceedings of the Regional Colloquium on Engineering and Technology Education for the 21st Century. Suranaree University, Thailand. February 11-14. p76-90.

Otten, Lambert. 1993. "Pioneering Pilot Plants" paper presented at the BioCycle Northeast Conference '93, Portland, Maine, Sept. 20-22.



Otten, Lambert. 1992. MSW composting and its impact on agriculture. Northeast Agr/Bio-Engineering Conference, ASAE, Canaan Valley Conference Centre, Davis, West Virginia, July 26-29, 1992. [KEYNOTE PAPER]

Otten, Lambert. 1993. What is the science behind composting? Presented at the "The Green Wave of Recycling" Seminar, Ontario Region, The Composting Council of Canada. Toronto, Ont., June 23-25. (14p)

### **5b. Conference papers**

Otten, Lambert 2010. Odour complaints continue to haunt facilities. 20<sup>th</sup> National Composting Conference of the Composting Council of Canada. Ottawa. Sept. 22-24.

Otten, Lambert. 2010. Effect of Oxygen Control on Process Temperature. 20<sup>th</sup> National Composting Conference of the Composting Council of Canada. Ottawa. Sept. 22-24.

Ameneiros, José Ma., Heidi Trujillo, Lambert Otten. . 2010. La interculturalidad a través de un proyecto cubano-canadiense". 7<sup>mo</sup> Congreso Provincial de Educación Superior (UNIVERSIDAD 2010)

Conrad, Larry and Lambert Otten. 2008. Process and operational adjustments to enhance odour control. 18th National Composting Conference of the Composting Council of Canada. Château Mont-Sainte-Anne, Québec. September 17-19

Quinones, Edgar, Manuel Alvarez Cuenca, Lambert Otten, and Mehrab Mehrvar. 2000. Comparison of nitrification processes in three-phase fluidized beds and rotating biological contactors. CSChE Conference, October. Montreal.

Quinones, Edgar, Manuel Alvarez Cuenca, Lambert Otten, and Mehrab Mehrvar. 2000. Biological fluidized bed reactors: A technology for water treatment. Paper presented at the Forocolca 2000, Foro Colombia-Canadá del Medio Ambiente. Mayo 24-26, Cartagena de Indias, Colombia.

Castilla, Edwin, Manuel A. Cuenca, Lambert Otten, and Mehrab Mehrvar. 2000. Nitrification and denitrification in rotating biological contactors. Paper presented at the Forocolca 2000, Foro Colombia-Canadá del Medio Ambiente. Mayo 24-26, Cartagena de Indias, Colombia.

Ameneiros, José , L. Otten, S. Martínez, L. Rodríguez, and R. Castro. 2000. Leachate composition simulation at the largest landfill in Havana City. Paper presented at the Forocolca 2000, Foro Colombia-Canadá del Medio Ambiente. Mayo 24-26, Cartagena de Indias, Colombia.

Ameneiros-Martinez, José and Lambert Otten. 1999. Composting: An option in the municipal solid waste management in Havana City. Paper presented at the International Composting Symposium (ICS'99), Halifax/Dartmouth, NS. September, 1999.

Cuenca, Manuel Alvarez, Edgar Quinones Balance and Lambert Otten. 1998. Fixed-film technologies for the treatment of industrial and municipal effluents in small water treatment plants. III International Congress of the Cuban Chemical Society. Capitolio de la Habana, La Habana, Cuba. December 1- 4.

Satimehin, Adesola A., Lambert Otten, and G.O.I. Ezeike. 1995. Thin- layer drying of gelatinized white yam cubes. Can. Soc. of Agric. Engineers Conference, Ottawa, Ont. July 9-12.

Adu Ben and Lambert Otten. 1994. Using spectral reflectance to assess grain quality deterioration during drying. Poster presented at the Food Processing Automation Conference III of The Food & Processing Engineering Institute of the ASAE. Orlando, Florida. February 10-11, 1994.

Adu Ben and Lambert Otten. 1994. Modeling the effects of changing hygroscopicity during microwave heating of solid foods. Paper presented at the Food Processing Automation Conference III of The Food & Processing Engineering Institute of the ASAE. Orlando, Florida. February 10-11, 1994.

Landman, J.J., V.J. Davidson, R.B. Brown, G.L. Hayward and L. Otten. 1994. Modelling colour kinetics in a continuous peanut roasting operation. Paper presented at the NABEC-94 Conference, Guelph, Ontario. July 24-27, 1994.

Otten, Lambert, Rodney Stuparyk and George Halet. 1994. Heavy metal content of municipal solid waste compost. Paper No. 94353 NABEC-94 Conference, Guelph, Ontario. July 24-27, 1994.

Adu, Benjamin and Lambert Otten. 1993. Effect of increasing hygroscopicity on the microwave heating of solid foods. Paper presented at the American Institute of Chemical Engineers' Third Conference on Food Engineering, CoFE'93. Chicago, Illinois. February 21-23, 1993.

Otten, Lambert. 1992. MSW composting and its impact on agriculture. Keynote Paper. Northeast Agr/Bio-Engineering Conference, ASAE, Canaan Valley Conference Centre, Davis, West Virginia, July 26-29, 1992.

Adu, B., L. Otten and R.B. Brown. 1992. Modelling microwave drying characteristics of soybeans. Paper No. 92-305. CSAE Annual Conference, Brandon, Manitoba, July 5-9, 1992.

Adu, B., L. Otten and R.B. Brown. 1992. Pulse microwave drying of soybean: a viscoelastic approach. Paper No. 92-6007. ASAE International Summer Meeting, Charlotte, North Carolina, June 21-24.

Fraser, H.W. and Lambert Otten. 1992. Predicting 7/8 cooling times for peaches by comparing heat transfer modelling and field measurement methods. Paper No. 92-6016. ASAE International Summer Meeting, Charlotte, North Carolina, June 21-24.

Braithwaite, L.A., L. Otten, W.D. Morrison, J. Crossley and L.A. Bate. 1992. Rewarming hypothermic piglets with microwave radiation (2.45-GHz, CW). International Conference on Agricultural Engineering AGENG 1992, Uppsala, Sweden, June 1-4, 1992.

Otten, Lambert. 1992. Some theoretical aspects of composting. 21st Annual PCAO Conference, Toronto, April 12-15, 1992.

Otten, Lambert, Dan Hoornweg and William Wong. 1990. Guelph Pilot Scale Solid Waste Composter. 12th Canadian Waste Management Conference, Oct. 3-5, 1990; St. John's Newfoundland.

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