

## ROLANDO A. FLORES

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### EDUCATION

- 1986-1989 KANSAS STATE UNIVERSITY, Ph.D. Grain Science  
Worked on the simulation of wheat flour milling systems. Areas of research included processing systems simulation, economic feasibility studies of processing operations, product quality, and heat and temperature movement in stored grain. Course work included courses in Agricultural Economics and Industrial Engineering. Specialization certificate in International Trade Studies.
- 1979-1981 IOWA STATE UNIVERSITY, M.S. Agricultural Engineering  
Worked on preservation of high moisture corn with microorganisms under airtight conditions.
- 1970-1974 UNIVERSIDAD DE COSTA RICA, B.S. Mechanical Engineering  
Worked on a study of the Costa Rican Metal-Mechanical Industry funded by the United Nations.

### PROFESSIONAL EXPERIENCE

- 2006- date DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY AND THE FOOD PROCESSING CENTER, UNIVERSITY OF NEBRASKA-LINCOLN, Lincoln, Nebraska.
- Professor and Head, Department of Food Science and Technology (FST). Lead and manage the undergraduate and graduate programs with a growing enrollment (148 students in Fall 2015), twenty-eight faculty members, a budget of \$12.4 million a year, grant activity of over \$7.6 million a year, unique and progressive research and outreach programs, state-of-the-art facilities, and extensive international programs. Courtesy appointment in the Department of Biological Systems Engineering.
- Director, The Food Processing Center (FPC). Lead a thirty-two year-old unique outreach program in support of the value-added food agricultural programs in the state and the nation; entrepreneurship activities; applied research; and laboratory, marketing, pilot plant, product development and engineering services to both national and international companies. Total personnel of fifteen specialists with 27% state funding only, an annual operational budget of \$2.1 million and grant activity of over \$300,000 a year.
- 2003 - 2006 USDA-ARS EASTERN REGIONAL RESEARCH CENTER, CROP CONVERSION SCIENCE & ENGINEERING RESEARCH UNIT, Wyndmoor, Pennsylvania.
- Research Agricultural Engineer. Conducted research on the application of dry fractionation technologies in the optimization of ethanol production from corn and barley and on the development of nutritious low starch high fiber foods from barley fractions.
- 2001 - 2003 USDA-ARS EASTERN REGIONAL RESEARCH CENTER, MICROBIAL FOOD SAFETY RESEARCH UNIT, Wyndmoor, Pennsylvania.
- Research Food Technologist. Conducted research on the development of process risk models for food processing plants by looking at the interaction of the unit operations and bacterial growth, transfer, survival and decline of foodborne pathogens, their products, and expression of virulence factors.
- 1996 - 2001 DEPARTMENT OF GRAIN SCIENCE AND INDUSTRY, KANSAS STATE UNIVERSITY, Manhattan, Kansas
- Associate Professor, G. M. Ross Professorship, Tenured. Taught graduate and undergraduate courses in grain milling engineering, grain processing and mill management systems. Conducted research on the simulation and optimization of the wheat milling process, dry/wet sorghum milling,

waste/residues from food industries, and the utilization of grain processing byproducts. Taught grain processing courses in Mexico and Chile.

1994 - 1996 DEPARTMENT OF AGRICULTURAL AND BIOSYSTEMS ENGINEERING, and DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION, IOWA STATE UNIVERSITY, Ames, Iowa.

Associate Professor, Bioprocess Engineer. Taught graduate and undergraduate courses in food engineering and physical properties of biological materials. Conducted research on corn dry milling, spray drying, composite flours, extrusion of corn dry milling streams, feed manufacturing, agricultural byproducts as fish meal substitutes, physical properties of food and agricultural products, food processing waste, and process control. Traveled to Egypt, Costa Rica and Mexico as part of technical assistance and research teams.

1990 - 1993 COOPERATIVE EXTENSION SERVICE, DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING, KANSAS STATE UNIVERSITY, Manhattan, Kansas

Assistant Professor, Food Engineering Extension Specialist. Developed and implemented programs to provide information and technical assistance to food producers and processors related to the design, selection, maintenance, and utilization of processing equipment for enhancing agricultural products for food and non-food markets. Pursued funds for and directed the construction and operation of the Kansas Value-Added Thermal Processing Laboratory at KSU. Taught milling simulation and management short courses in the Department of Grain Science and Industry. Conducted research on wheat processing, adding value to low-grade agricultural products, the development of thermoplastics from wheat and corn starch, the uses of foodservice processing waste, and the measurement of physical properties of biomaterials.

1988 - 1990 FOOD AND FEED GRAINS INSTITUTE, KANSAS STATE UNIVERSITY, Manhattan, Kansas

1989-1990 Assistant Professor. Postdoctoral position as a Grain Processing-Management Systems Specialist. Taught milling short courses in the Department of Grain Science and Industry and in the Food and Feed Grains Institute. Went to Haiti as a leader of a technical assistance team to evaluate the milling operations of La Minoterie D'Haiti.

1988-1989 Research Assistant. Worked on the computer simulation of grain processing systems. Took part in a team that evaluated Costa Rican grain policies and programs.

1986 - 1987 DEPARTMENT OF GRAIN SCIENCE AND INDUSTRY, KANSAS STATE UNIVERSITY, Manhattan, Kansas

Graduate Research Assistant. Worked on processing operations of grain handling facilities. Researched grain quality changes during ocean transportation, and equipment to clean wheat from foreign material.

1975 - 1986 NATIONAL PRODUCTION BUREAU (Consejo Nacional de Producción), San José, Costa Rica

1983-1986 Director of Administration Division. Directed interdisciplinary teams for food processing investment projects (grain processing and alcohol production). Managed the Administration Division, which consisted of five departments (engineering, maintenance, transportation, purchasing and general services) with over 400 people. Administered the Costa Rican P.L. 480 Program for wheat and corn purchases (\$28 million per year). Represented management on the Labor Grievance Board.

1982-1983 Head of Industrial Production. Designed a project to substitute diesel consumption in grain drying. Took part in the plant design of two fish processing plants in Costa Rica. Trained personnel on grain management techniques.

1975-1982 Head of Engineering Department. Directed the construction of grain storage terminals in Costa Rica for over \$7 million (five grain elevators - 66,400 metric tons of storage capacity). Took part in the evaluation of alcohol production processes.

- 1975            Mechanical Engineer in the Engineering Department. Designed grain terminal elevators.
- 1977            DEL CAMPO FOOD PRODUCTS, San José, Costa Rica
- Production Manager. In charge of the processing plant operations and personnel for the production of canned fruit juices, fruits, soups, beans, palm hearts, peas, hot peppers, pejalvalles, and ketchup.

**TEACHING EXPERIENCE**

- 1996 - 2000 DEPARTMENT OF GRAIN SCIENCE AND INDUSTRY, KANSAS STATE UNIVERSITY, Manhattan, Kansas.  
Taught graduate courses (Advanced Grain Processing Technologies - GRSC-840, Milling Processing Technology Management - GRSC-734) and undergraduate courses in grain milling (Milling Technology II, GRSC-730; Management Applications in Grain Processing Industries - GRSC-630, Principles of Milling, GRSC-100). Developed GRSC-840 as a new K-State course.
- 1994 - 1996 DEPARTMENT OF AGRICULTURAL AND BIOSYSTEMS ENGINEERING, and DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION, IOWA STATE UNIVERSITY, Ames, Iowa.  
Taught Physical Properties of Biological Materials (AE-565), Food Process Engineering (AE-551/451), and Unit Operations in Food Processing (FSHN-451). Developed AE-565 as a new ISU course.
- 1991-1993 DEPARTMENT OF GRAIN SCIENCE AND INDUSTRY, KANSAS STATE UNIVERSITY, Manhattan, Kansas.  
Developed and taught the graduate course Milling Processing Technology Management (GRSC-734).
- 1988-1990 FOOD AND FEED GRAINS INSTITUTE and INTERNATIONAL GRAINS PROGRAMS, KANSAS STATE UNIVERSITY, Manhattan, Kansas.  
Taught the Management Factor in Milling Technology II (GRSC-730) in the Department of Grain Science and Industry. Taught the Processing Factor in the Agroindustrial Project Analysis Short Course, and in the following short courses: Grain Storage and Marketing; Grain Grading, Storage and Handling.
- 1974-1985 DEPARTMENT OF MECHANICAL ENGINEERING, UNIVERSIDAD DE COSTA RICA, San José, Costa Rica  
Instructor (Part-time). Advised students and did research on grain dry-aeration, biomass energy and application of grain drying models to the tropics. Taught Mechanics Lab I.
- 1981-1984 AGRICULTURAL ENGINEERING DEPARTMENT, INSTITUTO TECNOLOGICO DE COSTA RICA, Cartago, Costa Rica  
Instructor (Part-time). Taught Senior Seminar and Irrigation and Drainage I.

**OTHER TRAINING RECEIVED**

- The Alcohol School. 2003. The Alltech Institute of Brewing and Distilling, Lexington, Kentucky.
- Quantitative Risk Assessment Methods Course. 2002. Joint Institute for Food Safety and Applied Nutrition, College Park, Maryland.
- Food Microbiology Short Course. 2001. College of Agricultural Sciences, The Pennsylvania State University, University Park, Pennsylvania.
- Fundamental Extend Simulation Training. 1999. Extend™ Imagine That, Inc. San Jose, San Francisco, California.
- Agribusiness Senior Management Seminar. 1997. Graduate School of Business Administration, Harvard University, Boston, Massachusetts.
- Packaging for the Food Industry Professional. 1991. School of Packaging, Food Industry Institute, Michigan State University, East Lansing, Michigan.

**PROFESSIONAL ACTIVITIES**

- American Society of Agricultural and Biological Engineers, ASABE (since 1980)
  - Member of the ASABE Transactions Editorial Board (since 2004)
  - Chair of the FPEI Food Processing and Education Committees (1993-1996)

- American Association of Cereal Chemists International, AACC International (since 1986)
  - Chair of the Technical Committee for the 2007 Annual Meeting
  - Chair of the Engineering & Processing Division (1996-97)
  - Chair-Elect of the Engineering & Processing Division (1997-96)
  - Secretary/Treasurer of the Engineering & Processing Division (1994-95)
- Grains for Health Foundation (2009-2011)
  - Member of the Board of Directors
- Institute of Food Technologists, IFT (since 1990)
  - Member of the Committee on Higher Education/Higher Education Review Board (since 2006)
  - Member of the Food Science Department Administrators Committee (since 2006)
- Society for Risk Analysis, SRA (2002)
- Association of Operative Millers, AOM (1996-2005)
  - Member of the Personnel Management Committee (1997-2001)
- Society for Computer Simulation International, SCSi (1998-2002)

## HONORS AND AWARDS

- Robert B. Daugherty Water for Food Institute Fellow. 2014.
- ASABE Superior Paper Award Winner 2012 for the manuscript "*Progressive Hull Removal from Barley using the Fitzpatrick Comminuting Mill*" by K. B. Hicks, J. Wilson and R. A. Flores.
- USDA – ARS 2010 Technology Transfer Award for Winter Barley Ethanol Initiative for Improving Energy Independence of the Mid-Atlantic (December, 2010)
- USDA – ARS Eastern Region Research Center Award of Excellence in Technology Transfer for Winter Barley Ethanol Initiative for Improving Energy Independence of the Mid-Atlantic (October, 2010)
- Agricultural Engineering Department, Universidad de Costa Rica Recognition (2009)
- Stanley Watson Award from the AACC International, Engineering and Processing Division (2008)
- Archer Daniels Midland Company "Outstanding Research Effort" Group Award by for work on "Biomass Research and Development for the production of Fuels, Chemicals, and Improved Cattle Feed," Cooperative Research and Development Agreement (2007)
- USDA Certificate of Merit for superior performance in the Predictive Microbiology Project (2004)
- USDA Certificate of Merit for productive relationship with the food industry (2002)
- ASAE Blue Ribbon Awards for Extension Publications (1991, 1992)
- Gamma Sigma Delta, The Honor Society of Agriculture, KSU (1989)
- Alpha Mu, Milling Honorary, KSU (1989)
- American Association of Cereal Chemists Travel Award (1988, 1987)
- Alpha-Epsilon in Agricultural Engineering, ISU (1981)
- Full scholarship for Master's Studies from the Costa Rican National Production Bureau (1979-81)
- Undergraduate Recognition at the Universidad de Costa Rica (1975)

**LANGUAGES** Complete fluency in Spanish

## PROFESSIONAL PUBLICATIONS

Meneses, Y. E. and R. A. Flores. 2016. Whey- recovered water in CIP systems, its feasibility, safety and economic implications. A case study on water conservation for the dairy industry. *Journal of Dairy Science: In press*.

Meneses, Y. E., K. J. Canon, and R. A. Flores. 2014. Keys to Understanding and Addressing Consumer Perceptions and Concerns about Processed Foods. *Cereals Foods World*, 59(3): 141-146.

Selani, M. M., S. G. C. Brazaca, C. T. dos Santos Dias, W. S. Ratnayake, R. A. Flores, and A. Bianchini. 2014. Characterization and potential application of pineapple pomace in an extruded product for fibre enhancement. *Food Chemistry*, 163:23-30.

Doblado-Maldonado, A. F., R. A. Flores, and D. J. Rose. 2013. Low moisture milling of wheat for quality testing of wholegrain flour. *Journal of Cereal Grains*, 58(3): 420-423.

Kyureghian, G., R. Flores. 2012. Meta-Analysis of Studies on Vitamin C Contents of Fresh and

Processed Fruits and Vegetables. *Journal of Food Nutritional Disorders* 1:2.

Rose, D. J., A. Bianchini, B. Martinez, and R. A. Flores. 2012. Methods for reducing microbial contamination of wheat flour and effects on functionality. *Cereals Foods World*, 57(3): 104-109.

Silva, L.C., D. M. Queiroz, R.A. Flores and E. C. Melo. 2012. A simulation toolset for modeling grain storage facilities, *J. of Stored Products Research*, 48:30-36.

Hicks, K. B., J. Wilson, and R. A. Flores. 2011. Progressive hull removal from barley using the Fitzpatrick comminuting mill. *Applied Engineering in Agriculture*, 27(5): 797-802. (*Received the 2012 ASABE Superior Paper Award.*)

Griffey, C., Brooks, W., Kurantz, M., Thomason, W., Taylor, F., Obert, D., Moreau, R., Flores, R., Sohn, M., and Hicks, K. 2010. Grain composition of Virginia winter barley and implications for use in feed, food, and biofuels production, *Journal of Cereal Science*, 51: 41-49.

Prasopsunwattana, N., M. Botero Omary, E A. Arndt, P. H. Cooke, R. A. Flores, W. Yokoyama, A. Toma, S. Chongcham, and S. P. Lee. 2009. Particle size effects on the quality of flour tortillas enriched with whole grain waxy barley. *Cereal Chemistry* 86 (4): 439-451.

Toma, A., M. B. Omary, K. A. Rosentrater, E. A. Arndt, N. Prasopsunwattana, S. Chongcham, R. A. Flores, and S. P. Lee. 2008. Understanding Consumer Preference for Functional Barley Tortillas Through Sensory, Demographic, and Behavioral Data. *Cereal Chemistry* 85 (6): 721-729.

Moreau, R. A., K. E. Wayns, R. A. Flores, and K. B. Hicks. 2007. Tocopherols and tocotrienols in barley oil prepared from germ and other fractions from scarification and sieving of hulless barley. *Cereal Chemistry* 84(6): 587-592.

Flores, R. A., K. B. Hicks, and J. Wilson. 2007. Surface abrasion of hulled and hulless barley: Physical characterization of the milled fractions. *Cereal Chemistry* 84(5): 485-491.

Ramírez-Wong, B., C. E. Walker, A. I. Ledesma-Osuna, P. I. Torres, C. L. Medina-Rodríguez, G. A. López-Ahumada, M. G. Salazar-García, R. Ortega-Ramírez, A. M. Johnson, and R. A. Flores. 2007. Effect of flour extraction rate on white and red winter wheat flour compositions and tortilla texture. *Cereal Chemistry* 84(3): 207-213.

Garcia, R. A., R. A. Flores, and C. E. Mazenko. 2007. Factors contributing to the poor bulk behavior of meat and bone meal and methods for improving these behaviors. *Bioresource Technology* 98: 2852-2858.

Taylor, F., T. H. Kim, N. M. Goldberg, and R. A. Flores. 2007. Uniformity of distribution of anhydrous ammonia into shelled corn in a continuous ammoniator. *Transactions of the ASABE* 50(1): 147-152.

Moreau, R. A., R. A. Flores, and K. B. Hicks. 2007. Composition of functional lipids in hulled and hulless barley in fractions obtained by scarification and in barley oil. *Cereal Chemistry* 84(1): 1-5.

Silva, L. C., D. M. Queiroz, and R. A. Flores. 2006. Estimativa de custos operacionais em unidades armazenadoras de grãos por meio de simulação (Estimation of operational costs of grain storage facilities using computer simulation). *Revista Brasileira de Armazenamento* 31(1): 1-7.

Garcia, R. A., K. A. Rosentrater, and R. A. Flores. 2006. Characteristics of North American meat and bone meal relevant to the development of non-feed applications. *Applied Engineering in Agriculture* 22(5): 729-736.

- Boateng, A. A., K. B. Hicks, R. A. Flores, and A. Gutsol. 2006. Pyrolysis of hull-enriched byproducts from the scarification of hulled barley (*Hordeum vulgare* L.). Journal of Analytical and Applied Pyrolysis 78: 95-103.
- Flores, R. A., M. L. Tamplin, B. S. Marmer, J. G. Phillips, and P. H. Cooke. 2006. Transfer Coefficient Models for *Escherichia coli* O157:H7 on Contacts between Beef Tissue and High Density Polyethylene Surfaces. Journal of Food Protection 69(6):1248-1255.
- Flores, R. A., K. B. Hicks, D. W. Eustace, and J. Phillips. 2005. High-starch and high-beta-glucan barley fractions milled with experimental mills. Cereal Chemistry 82(6):727-733.
- Rosentrater, K. A., T. L. Richard, C. J. Bern, and R. A. Flores. 2005. Small-scale extrusion of corn masa byproducts. Cereal Chemistry 82(4):436-446.
- Garcia, R. A., R. A. Flores, and J. G. Phillips. 2005. Use of an aspirator to separate meat & bone meal into high ash and high protein streams. Transactions of the ASAE 48(2): 703-708.
- Flores, R.A. and T. E. Stewart. 2004. Empirical distribution models for *Escherichia coli* O157:H7 in ground beef produced by a mid-size commercial grinder. Journal of Food Science 69(5):M121-6.
- Flores, R. A. 2004. Distribution of *Escherichia coli* O157:H7 in beef processed in a table-top bowl-cutter. Journal of Food Protection 67(2): 246-251.
- Kim, Y. S., R. A. Flores, O.K. Chung, and D.B. Bechtel. 2003. Physical and chemical characterization of wheat flour milling co-products. Journal of Food Process Engineering 26(5): 469-488.
- Yuan, J., R. A. Flores, D. Eustace, and G. A. Milliken. 2003. A systematic analysis of the break subsystems of a wheat flour pilot mill. Institution of Chemical Engineers, Trans. IChemE 81 (Part C): 170-179.
- Loza-Garay, M. and R. A. Flores. 2003. Moisture, ash and protein flow rate study in a wheat flour pilot mill using simulation models. Institution of Chemical Engineers, Trans. IChemE 81 (Part C): 180-188.
- Rosentrater, K. A., T. L. Richard, C. J. Bern, and R. A. Flores. 2003. Economic simulation modeling of reprocessing alternatives for corn masa byproducts. Resources, Conservation and. Recycling 39(4):341-367.
- Lam, D. and R. A. Flores. 2003. Effect of particle size and moisture content on viscosity of fish feed. Cereal Chemistry 80(1): 20-24.
- Higiro, J., R. A. Flores, and P. A. Seib. 2003. Starch Production from Sorghum Grits. Journal of Cereal Science 37(1): 101-109.
- Flores, R. A. and M. L. Tamplin. 2002. Distribution Patterns of *Escherichia coli* O157:H7 in Ground Beef Produced by a Laboratory-Scale grinder. Journal of Food Protection 65(12): 1894-1902.
- Mao, Y., R. A. Flores, and T. M. Loughin. 2002. Objective Texture Measurements of Commercial Wheat Flour Tortillas. Cereal Chemistry 79(5): 648-653.
- Selden, G.L., P. B. Brown, A. C. Ostrowski, R. A. Flores and L. A. Johnson. 2001. Evaluation of soybean meal-red blood cell coextruded feed ingredient in diets fed to rainbow trout, *Oncorhynchus mykiss*. Journal of the World Aquaculture Society 32:409-415.
- Kuakpetoon, D., R. A. Flores, and G. A. Milliken. 2001. Effects of Particle Properties and Blending Ratios

on the Dry Mixing of Soft and Hard Wheat Flours. Food Science and Technology – Lebensmittel-Wissenschaft und-Technology (Iwt) 34(3):183-193.

Cha, J. Y., D. S. Chung, P. A. Seib, R. A. Flores and M. A. Hanna. 2001. Physical Properties of Starch-Based Foams as Affected by Extrusion Temperature and Moisture Content. Industrial Crops and Products 14:23-30.

Mao, Y. and R. A. Flores. 2001. Mechanical Starch Damage Effects on Wheat Flour Tortilla Texture. Cereal Chemistry 78(3):286-293.

Mukprasirt, A., T. Harold, and R. A. Flores. 2000. Rheological Characterization of Rice Flour Batters. Journal of Food Science 65(7):1194-1199.

Cha, J. Y., R. A. Flores, and C. L. Kastner. 2000. Evaluation of Processes to Enhance Grain and Meat Coproducts. Journal of Food Process Engineering 23: 353-371.

Suroso, J., R. A. Flores, and J. E. Boyer Jr. 2000. Scarification and Degermination of Sorghum for Grits Production: Effects of Hybrid and Conditioning. Cereal Chemistry 77(6): 808-815.

Cha, J. Y., R. A. Flores, and H. Park. 2000. Reduction of Carotenoids in Corn Gluten Meal with Soy Flour. Transactions of the ASAE 43(5):1169-1174.

Adapa, S., K. A. Schmidt, I. J. Jeon, T. J. Herald, and R. A. Flores. 2000. Mechanisms of Ice Crystallization and Recrystallization in Ice Cream: A review. Food Rev. Int., 16(3):259-271.

Loza-Garay, M. and R. A. Flores. 2000. Computer Simulation of a Flour Mill as a Stochastic Model. Proceedings of the FOODSIM'200, 1<sup>st</sup> International Conference on Simulation in Food and Bio Industries, Nantes, France, ed. Daniel Thiel, p. 228-292.

Wang, L. and R. A. Flores. 2000. Effects of Flour Particle Size on the Textural Properties of Flour Tortilla. Journal of Cereal Science 31(3): 263-272.

Shanklin, C. W., R. Flores, T. Kim, and K. Wolfe. 1999. Survey Methodology in the Development of a Food Waste/Residue Database. Journal of Foodservice Research International 11:171-186.

Kim, Y. and R. A. Flores. 1999. Determination of Bran Contamination in Wheat Flours Using Ash Content, Color, and Bran Speck Counts. Cereal Chemistry 76(6):957-961.

Rosentrater, K., R. A. Flores, T. L. Richard, and C. J. Bern. 1999. Physical and Nutritional Properties of Corn Masa Byproducts Streams. Applied Engineering in Agriculture 15(5):515-523.

Mangold Konkoly, A., R. A. Flores, and M. E. Castell-Perez. 1999. Use of a Spiral Adapter in the Characterization of Commercial Cream Cheeses. Applied Engineering in Agriculture 15(5):539-542.

Wang, L. and R. A. Flores. 1999. Effects of Wheat Starch and Gluten on Tortilla Texture. Cereal Chemistry 76(5):807-810.

Wang, L. and R. A. Flores. 1999. Effects of Different Wheat Classes and Their Flour Milling Streams on Textural Properties of Flour Tortilla. Cereal Chemistry 76(4):496-502.

Wang, L. and R. A. Flores. 1999. Effects of Storage on Flour Quality and Baking Performance. Food Rev. Int. 15(2): 215-234.

Flores, R. A., C. W. Shanklin, M. Loza-Garay, and S. H. Wie. 1999. Quantification and Characterization of

- Food Processing Wastes/Residues. Compost Science & Utilization 7(1): 63-71.
- Jamin, F. F. and R. A. Flores. 1998. Effect of Separation and Grinding of Corn Dry Milled Streams on Single-Screw Low-rpm Extruded Products. Cereal Chemistry 75(6):775-779.
- Zhao, Y., R. A. Flores, and D. Olson. 1998. High Hydrostatic Pressure Effects on Rapid Thawing of Frozen Beef. Journal of Food Science 63(2):272-275.
- Perez-Muñoz, F., and R. A. Flores. 1998. Effect of Storage Time on Solubility and Color of Spray Dried Soymilk. Journal of Food Protection 61(2):231-234.
- Jamin, F. F. and R. A. Flores. 1998. Effect of Additional Separation and Grinding on the Chemical and Physical Properties of Selected Corn Dry-Milled Streams. Cereal Chemistry 75(1):166-170.
- Perez-Muñoz, F., and R. A. Flores. 1997. Particle Size of Spray Dried Soymilk. Applied Engineering in Agriculture 13(5):647-652.
- Park, H., R. A. Flores, and L. A. Johnson. 1997. Preparation of Fish Feed Ingredients: Elimination of Carotenoids in Corn Gluten Meal. J. of Agricultural and Food Chemistry 45(6):2088-2092.
- Rosentrater, K. A. and R. A. Flores. 1997. Physical and Rheological Properties of Slaughterhouse By-products: Swine Blood. Transactions of the ASAE.40(3): 683-689.
- Wang, L., R. A. Flores, and L. A. Johnson. 1997. Processing Feed Ingredients from Blends of Soybean Meal and Blood. Transactions of the ASAE.40(3): 691-697.
- Perez-Munoz, F. and R. A. Flores. 1997. Characterization of a Spray Drying System for Soymilk. Drying Technology 15(3&4):1023-1043.
- Yuan, J. and R. A. Flores. 1996. Laboratory Dry-Milling Performance of White Corn: Effect of Physical and Chemical Corn Characteristics. Cereal Chemistry 73(5): 574-578.
- Mashl, S. J., R. A. Flores, and R. Trivedi. 1996. Dynamics of Solidification in 2% Corn Starch-Water Mixtures: Effect of Variations in Freezing Rate on Product Homogeneity. Journal of Food Science 61(4):760-765.
- Wang, W. and R. A. Flores. 1996. Cyclic Tests of Wheat and Corn Starch Extrudates as Cushioning Materials. Applied Engineering in Agriculture. 12(1):79-84.
- Barrantes, W., R. A. Flores, R. Phillips, and B. Goodwin. 1995. Economic Analysis of Wheat Classes: A Case Study for Costa Rica. Cereal Foods World 40(11):833-836.
- Kim, Y., R. A. Flores, C. W. Deyoe, and O. K. Chung. 1995. Relation of Physical Characteristics of Wheat Blends and Experimental Milling to Some Commercial Milling Performance Parameters. Applied Engineering in Agriculture 11(5):699-706.
- Strahm, B., R. A. Flores, and D. S. Chung. 1995. Properties of Dehydrated Low -Grade Asparagus (*Asparagus officinalis*). Journal of Food Protection 58(7):804-809.
- Ferris, D. A., R. A. Flores, C. W. Shanklin, and M. K. King. 1995. A Proximate Analysis of Foodservice Waste. Applied Engineering in Agriculture 11(4):567-572.
- Wang, W., R. A. Flores, and C.-T. Huang. 1995. Physical Properties of Two Biological Cushioning Materials from Wheat and Corn Starches. Cereal Chemistry 72(1):38-41.



- Nelson, R. and R. Flores. 1994. Survey of Processing Residues Generated by Kansas Agribusinesses. Applied Engineering in Agriculture. 10(5):703-708.
- Strahm, B. and R. A. Flores. 1994. Dehydration of Low Grade Asparagus. Drying Technology, 12(4):903-921.
- Ferris, R., C. Shanklin, and R. A. Flores. 1994. Solid Waste Management in Foodservice. Food Technology, 48(3):110-115.
- Flores, R. A., E. S. Posner, R. Phillips, and C. W. Deyoe. 1993. Modeling the Economic Evaluation of Wheat Flour Milling Operations. Transactions of the ASAE 36(4): 1143-1149.
- Rao, N., R. A. Flores, and K. L. B. Gast. 1993. Mathematical Relationships for the Heat of Respiration as a Function of Produce Temperature. Postharvest Biology and Technology 3:173-180.
- Liu, M. C., R. A. Flores, C. W. Deyoe, and E. S. Posner. 1992. Assessment of a Computer Simulation Model for the Flour-Milling Industry. Cereal Foods World 37(8): 649-654.
- Flores, R. A., E. S. Posner, G. A. Milliken, and C. W. Deyoe. 1991. Modeling the Milling of Hard Red Winter Wheat: Estimation of Cumulative Ash and Protein Recovery. Transactions of the ASAE 34(5): 2117-2122.
- Flores, R. A., E. S. Posner, and C. W. Deyoe. 1991. Evaluation of a Laboratory Dockage Removal Device. Cereal Foods World 36(6): 513-516.
- Flores, R. A. 1989. Computer Simulation Model for Wheat Flour Milling Systems. Ph. D. Dissertation, Department of Grain Science and Industry, Kansas State University. University Microfilms International, Ann Arbor, Michigan.
- Flores-Galarza, R. A., B.A. Glatz, C. J. Bern, and L. D. Van Fossen. 1985. Preservation of High-Moisture Corn by Microbial Fermentation. Journal of Food Protection 48(5): 407-411.
- Flores G., R. A. 1982. Uso de la cromatografía de gases para determinar la actividad de hongos en el maíz almacenado. (Use of Gas Chromatography to Determine Mold Activity in Stored Corn). Tecnología en Marcha 5(1-2): 3-7, ITCR, Cartago, Costa Rica.
- Flores Galarza, R., and R. Zeledón. 1982. Cuantificación del potencial energético de la cascarilla de arroz y del olote de maíz en Costa Rica (The Energy Potential of Rice Hulls and Corn Cobs in Costa Rica). Tecnología en Marcha 5(4): 9-12. ITCR, Cartago, Costa Rica.
- Flores Galarza, R., and G. Rengifo. 1982. Sistema postcosecha de arroz, maíz, frijol y sorgo en Costa Rica (Costa Rica's Postharvest Systems for Rice, Corn, Beans, and Sorghum). Anais do I Seminario Latinoamericano de Perdas Pos-Colheita de Graos, (pp. 147-164). CENTREINAR, Viçosa, Minas Gerais, Brazil.
- Flores-Galarza, R. A. 1981. Preservation of High Moisture Corn by Microbial Activity. Master's Thesis. Department of Agricultural Engineering, Iowa State University, Ames, Iowa, U.S.A.
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### **Book chapters:**

Flores, R. A. 2006. Modeling the behavior and fate of microbial pathogens in beef processing particle reduction operations. Chapter 15, in *Advances in Microbial Foods Safety*; ed. by V. Juneja, J. P. Cherry, and M. H. Tunick, ACS Books, ACS: Washington, DC.

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### **THESES AND DISSERTATIONS DIRECTED**

"Whey-recovered water in CIP systems: its safety, economic and environmental implications." PhD Dissertation by Yulie Meneses. 2016. Department of Food Science and Technology, University of Nebraska – Lincoln, Lincoln, Nebraska.

"Dynamic and Stochastic Simulation of Grain Storage Facilities," PhD Dissertation by Luis Cesar Da Silva. 2002. Department of Agricultural Engineering, Universidade Federal de Viçosa, Minas Gerais, Brazil.

"Effect of starch damage and particle size on the texture of wheat flour tortillas." Master's Thesis by Yufeng Mao. 2000. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Sorghum dry and wet milling for grits and starch production." Master's Thesis by Juvenal Higiroy. 2000. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Flour milling flow characterization using computer simulation." Master's Thesis by Mariano A. Loza-Garay. 2000. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Effect of particle properties and blending ratios on the dry mixing of soft and hard wheat flours," Master's Thesis by Daris Kuakpetoon. 1999. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Production of low ash and low fat sorghum grits," Master's Thesis by Janti Suroso. 1999. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Effect of wheat flour parameters on the textural properties of flour tortilla," PhD Dissertation by Linfeng Wang. 1999. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"Rheological characterization of commercially available cream cheese and physical properties of corn and peanut composite flour extrudates," Master's Thesis by Amy Mangold Konkoly. 1997. Department of Food Science and Human Nutrition, Iowa State University, Ames, Iowa.

"Effects of processing parameters and material on fish feed extrusion with momentum transfer consideration," Master's Thesis by Desmond Lam. 1996. Department of Agricultural and Biosystems Engineering, Iowa State University, Ames, Iowa.

"The effects of additional separation and grinding on selected corn dry milling streams and their extruded products," Master's Thesis by Fen Fen Jamin. 1996. Department of Agricultural and Biosystems Engineering, Iowa State University, Ames, Iowa.

"Spray Drying of Soybean Milk," PhD Dissertation by Fernando Perez-Muñoz. 1996. Department of Agricultural and Biosystems Engineering, Iowa State University, Ames, Iowa.

"Physical Properties of Two Biological Cushioning Materials," Master's Thesis by Wei Wang. 1994. Department of Agricultural Engineering, Kansas State University, Manhattan, Kansas.

"Dehydration of Low Grade Asparagus," Master's Thesis by Bradley Strahm. 1993. Department of Agricultural Engineering, Kansas State University, Manhattan, Kansas.

"The Relation of Physical Characteristics of Wheat Blends and Experimental Milling Performances to Some Commercial Milling Performance Parameters," Master's Thesis by Yangsoo Kim. 1993. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

"A Comparative Study of U.S. and Internationally Competitive Wheat Shipments: 1990-1992," Master's Thesis by Michael B. Maloney. 1993. Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas.

### **Post-doctorates and Collaborators**

- Kim Ocfemia, 2000, worked on physical and mechanical characterization of wheat millfeeds
- Dr. Yangsoo Kim, 1998-99, worked on wheat flour milling optimization and byproduct utilization
- Dr. Jae Yoon Cha, 1997-98, worked on corn gluten meal carotenoids reduction
- Dr. Hyesun Park, 1996, worked on yellow corn pigment removal

### **TRADE JOURNAL PUBLICATIONS**

Flores, R.A. 2000. Particle properties in flour blending. *Milling Journal*: 56-58.

Flores, R. A. and C. W. Shanklin. 1998. What's needed to use more agribusiness residues. *BioCycle* 39(11):82-83.

Flores, R. 1998. Making Agricultural Leftovers more Palatable: Turning Agribusiness Processing Residuals into Value-Added Products. *Resource* 5(4): 13-14.

Flores, R. A. 1997. Dehydration of Foods - A book review. *Trends in Food Science & Technology* 8(10):352.

Flores, R. A., E. S. Posner, and C. W. Deyoe. 1992. Computer Simulation Model for Wheat Flour Milling Systems (Modelo de Simulación en Computador para Sistemas de Molienda de Trigo). *Association of Operative Millers - Bulletin*: 6079-6090.

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### **PRESENTATIONS AT PROFESSIONAL MEETINGS**

(Each presentation includes a published abstract and/or a meeting paper)

Meneses, Y. and R. Flores. 2015. Whey- recovered water in CIP systems: its safety and economic implications. A case study on water conservation for the dairy industry. Presented at the 12th International Congress on Engineering and Food (ICEF12)- Quebec City, Canada.

Aditya, F. A., Flores R.A., Wang B. 2015. Quantitative analysis of the public health impact of *E. Coli* O157:H7 cross-contamination in beef processing plants. Paper presented at IAFP 2015, July 25-28, Portland, Oregon.

Meneses, Y. and R. A. Flores. 2014. Water, the non-renewable ingredient for food processing. 2014 Global Water for Food Conference, Seattle, WA, USA, October 19-22, 2014.

- Sabillón, L., A. Bianchini, J. Stratton, D. Rose, R. A. Flores. 2014. Improving Safety of Wheat Milled Products through Processing. IAFP Annual Meeting, (Poster # P1-163), Indianapolis, Indiana, U.S.A.
- Sabillón, L., J. Stratton, D. Rose, R. A. Flores, A. Bianchini. 2014. Pre-milling interventions to reduce the microbial load of straight-grade and whole-grain flour with minimal impact on flour functionality. AACCI Annual Meeting, (Poster # 179-P), Providence, Rhode Island, U.S.A.
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- Flores, R. A. 2014. Food safety fundamentals to positively impact healthy humans. International Forum on Development Strategies and Ecological Issues in Western China, Northwest A&F University, Yangling, China, September 12-13, 2014.
- Flores, R.A. and Y. Meneses. 2013. Wheat flour milling challenges, reaching the consumer. 1<sup>st</sup> UNL – Henan University of Technology (HAUT) Grain Forum, Zhengzhou, Henan, China, November 18<sup>th</sup> – 20<sup>th</sup>, 2013.
- Flores, R. A. and M. Doyle. 2013. Who deserves credit in science and engineering writing? “Who to write for and to whom? Workshop of Good Scientific Writing for Publishing in International Grain, Oil, and Food Journals in Zhengzhou, Henan China, November 16<sup>th</sup> and 17<sup>th</sup>, 2013.
- Flores, R.A. and Y. Meneses. 2013. Benefits and challenges of food processing. AACC International Annual Meeting, Albuquerque, NM.
- Sabillon Galeas, L., A. Bianchini, J. Stratton, D. Rose, R.A. Flores. 2013. Microbial Load Reduction of Wheat Milled Products through Pre-milling Interventions and Milling. AACC International Annual Meeting, Poster Presentation, Albuquerque, NM.
- Sabillon Galeas, L., A. Bianchini, J. Stratton, D. Rose, R.A. Flores. 2013. Microbiological Quality of Winter Wheat Harvested in Different Regions of Nebraska, United States. IFT Annual Meeting, Poster #302-15, Chicago, IL.
- Mo, L., Wang, H., Burrows, A.S., Ratnayake, W.S., Flores, R.A. 2013. Physicochemical properties of Pin-Milled Pinto Beans. Institute of Food Technologists Annual Meeting (Poster No. 163-146). Chicago, IL.
- Wang, H., Burrows, A. S., Ratnayake, W. S., & Flores, R. A. 2013. Properties and functionalities of pin milled Great Northern bean flour Institute of Food Technologists Annual Meeting (pp. Poster No. 163-126). Chicago, IL.
- Liu, Y., Byers, J. D., Ratnayake, W. S., & Flores, R. A. 2013. Encapsulation of ascorbic acid with high amylose corn starch-pectin mixtures. Institute of Food Technologists Annual Meeting (Poster No. 154-103). Chicago, IL.
- Flores, R. A. 2013. Utilization of by-products in alternative uses and health-promoting food products. Proceedings of the 1<sup>st</sup> International Conference On Innovations in Food Processing, Value Chain Management & Food Safety (IFpvs) - January 10-11, 2013, New Delhi, India
- Ratnayake, W. and R. A. Flores. 2013. Functional foods: properties and utilization in the processed food industry. Proceedings of the 3<sup>rd</sup> International Conference on Food Technology, Food Processing Technologies: Challenges & Solutions for sustainable Food Security, January 4<sup>th</sup> & 5<sup>th</sup>, 2013, Thanjavur, Tamil Nadu, India, pp: 21-27.

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- Flores, R. A. 2012. Increase grain utilization of byproducts in alternative and health-promoting food products from previously unutilized grain fractions. International Symposium of Novel Technologies in Food Processing and Byproducts Utilization, Shanghai, China.
- Flores, R. A. 2011. Grinding Process Optimization in the Production of Flours. Grain Quality and Processing for Obtaining Flour Workshop, Guatemala City, Guatemala.
- Flores, R. A. 2011. Centre for Science and Food Technology and Food Science Department. Grain Quality and Processing for Obtaining Flour Workshop, Guatemala City, Guatemala.
- Flores, R. A. 2011. Inocuidad de Alimentos en el Procesamiento de Frutas y Vegetales. Primer Seminario Internacional de Alimentos Procesados Hortifrutícolas, Talca, Chile.
- Flores, R. A. 2010. Particle Size Reduction Models in Wheat Flour Processing. International Conference on Food Technology, Edition II, Indian Institute of Crop Processing Technology, Thanjavur, India.
- Flores, R. A. 2010. Agricultural Bioterrorism and the Food Industry. 2010 Nebraska Infrastructure Protection Conference. March 23-24, Omaha, Nebraska.
- Flores, R. A. 2009. Challenges and opportunities in education, research and outreach in food science. The 2<sup>nd</sup> International Conference on Health and Longevity Sciences. University of Shizuoka, Shizuoka, Japan.
- Flores, R. A. 2009. Particle size reduction modeling and new applications. Guest speaker of the Engineering and Processing Division. Meeting of the International Association of Cereal Chemists, Baltimore, Maryland, USA.
- Flores, R. A. 2009. Overview of the food industry in Latin America, trends and trade for Costa Rica. Enhancing India's Global Competitiveness in Food Trade, International Workshop on 24-26 May, 2009, New Delhi, India.
- Flores, R. A. 2009. Optimización de productos y subproductos en el procesamiento de productos agrícolas. Uso de la cebada en la producción de etanol. II Congreso Nacional de Ingeniería Agrícola, Ciudad Universitaria Rodrigo Facio Brenes, San José, Costa Rica, May 7-8, 2009.
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- K. Hicks, J. Shetty, M. Li, R. Moreau, A. Boateng, J. Nghiem, D. Johnston, and R. Flores. 2007. A barley bio-refinery: Producing fuel ethanol, valuable nutraceuticals, food and feed ingredients and other products. Meeting of the International Association of Cereal Chemists, San Antonio, Texas, USA. *Cereal Foods World* 52:A2.
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Flores, R. A. 2007. Product and by-product optimization in processing agricultural products: A case for barley to ethanol. The 233<sup>rd</sup> ACS National Meeting, Chicago, Illinois.

Silva, L. C., Flores, R., A. Queiroz, D. M. 2006. Sensitivity analysis using a grain storage facility model. *Proceedings of the 9th International Working Conference on Stored Product Protection*. Eds. I. Lorini, B. Bacaltchuck, H. Belckel, D. Deckers, E Sundfeld, F. P. dos Santos, J. D. Biagi, J. C. Celaro, L. R. D'A. Faroni L. de O. F. Bortolini, M. R. Sartori, M. C. Elias, R. N. C. Guedes, R. G. da Fonseca, V. M. Scussel. pp 1257-1263. ABRAPOS, Brazilian Post-Harvest Association Campinas, SP, Brazil.

N. Prasopsunwattana, A. Toma, S. Lee, S. Chongcham, P. Cooke, R. A. Flores, J. Wilson, E. A. Arndt, W. Yokoyama, and M. B. Omary 2006. Particle size effects of whole barley flour on the quality of wheat tortillas. Meeting of the International Association of Cereal Chemists, San Francisco, California. September 17-20.

Chongcham, S., N. Prasopsunwattana, R. A. Flores, P. Cooke, E. A. Arndt, and M. B. Omary. 2006. Sensory evaluation and quality of graham crackers prepared with a whole barley flour rich in soluble fiber. Meeting of the International Association of Cereal Chemists, San Francisco, California. September 17-20.

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Flores, R. A. 2005. Grain quality in non-traditional value-added applications. V Conference of the Northwest – I National Food Science and Biotechnology Conference Hermosillo, Mexico. Invited speaker. November 5-8.

Flores, R. A. and K. B. Hicks. 2005. Milling alternatives for barley to produce ethanol and value-added fractions. Proceedings of the 34<sup>th</sup> Annual Meeting of the USA/Japan Cooperative Program in Natural Resources, Susono, Shizuoka, Japan, October 23-29, pages 52-57. Invited speaker.

Flores, R. A. and K. B. Hicks. 2005. Scarification of barley to produce value-added fractions. Meeting of the International Association of Cereal Chemists, Orlando, Florida. September 11-14.

López-Ayala, M. P., C. E. Walter, R. A. Flores, M. G. Salazar-García, and B. Ramírez-Wong. 2005. Extensional viscosity evaluation of doughs used to make flour tortillas from red and white hard wheats. Meeting of the International Association of Cereal Chemists, Orlando, Florida. September 11-14.

Hicks, K. B., R. A. Flores, F. Taylor, A. McAloon, R. A. Moreau, D. Johnston, G. E. Senske, W. S. Brooks, and C. A. Griffey. 2005. Hullless barley – A new feedstock for fuel ethanol? Proceedings of the 15<sup>th</sup> Annual EPAC Ethanol Conference, June 12-14. Cody, WY.

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Hicks, K. B., R. A. Flores, F. Taylor, A. McAloon, R. A. Moreau, D. Johnston, G. E. Senske, W. S. Brooks, and C. A. Griffey. 2005. Current and Potential use of Barley in fuel ethanol production. Proceedings of the Eastern Wheat Workers/Southern Small Grain Workers Conference, May 9-12, 2005, Bowling, KY.

Garcia, R. A., R. A. Flores, and M. M. Taylor. 2005. Factors contributing to the poor flow properties of meat and bone meal and methods for improving these properties. 2005 ASAE Annual International Meeting, Tampa, Florida. Paper No. 88985. ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9659 U.S.A.

Flores, R. A. 2005. State of the art of particle size reduction research in grain milling applications. Invited speaker 109<sup>th</sup> Annual Conference & Expo of the International Association of Operative Millers, Nashville, TN.

Flores, R. 2005. Experimental milling and scarification of barley samples for ethanol production. Value-Added Processes of Grains for Food and Fuel Workshop, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. 2005. Effect of wheat flour particle size and milling parameters in the texture of the finished product, i.e. tortillas. Value-Added Processes of Grains for Food and Fuel Workshop, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. 2005. Importance of particle properties and blending ratios in the mixes of soft and hard wheat flours. Value-Added Processes of Grains for Food and Fuel Workshop, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. 2005. Application of deterministic and stochastic models in flour milling. Value-Added Processes of Grains for Food and Fuel Workshop, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. A. 2005. Development and application of models in wheat milling. Invited speaker CIAD (Centro de Investigación en Alimentación y Desarrollo, A. C. - Research Center for Food & Development), Hermosillo, **Mexico**.

Flores, R. A., D. W. Eustace, and K. B. Hicks. 2004. Experimental milling of barley samples. 89<sup>th</sup> Annual Meeting of the Association of Cereal Chemists and the 15<sup>th</sup> Annual Conference & Trade Exposition of the Tortilla Industry Association, San Diego, California. Abstract 243, Program Book, page 126.

Hicks, K. B., F. Taylor, D. J. O'Brien, R. A. Flores, D. Brann, W. Brooks, C. Griffey. 2004. Hulless barley as a feedstock for fuel ethanol production. 89<sup>th</sup> Annual Meeting of the Association of Cereal Chemists and the 15<sup>th</sup> Annual Conference & Trade Exposition of the Tortilla Industry Association, San Diego, California. Abstract 43, Program Book, page 72.

Flores, R. A. 2004. Modeling the behavior and fate of microbial pathogens in particle reduction food processing operations. 228<sup>th</sup> American Chemical Society National Meeting, Philadelphia, Pennsylvania. Paper No. AGFD 0156.

Garcia, R. A., R. A. Flores, and M. H. Tunick. 2004. Use of an aspirator to improve meat and bone meal for non-edible applications. 228<sup>th</sup> American Chemical Society National Meeting, Philadelphia, Pennsylvania. Paper No. CELL 0091.

Hicks, K., F. Taylor, M. Kurantz, D. O'Brien, D. Johnston, R. Flores, R. Moreau, K. Kohout, R. Moten, L. Hoot, B. Carmean, R. Hutchison, D. Brann, W. Brooks, and C. Griffey. 2004. Hulless Barley as a Feedstock for Fuel Ethanol - Experimental Studies. 20<sup>th</sup> International Fuel Ethanol Workshop and Tradeshow, Madison, Wisconsin.

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- Flores, R.A. 2003. Escherichia coli O157:H7 distribution in beef processed in a table-top bowl-cutter. Annual Meeting of the International Association for Food Protection, New Orleans, Louisiana. Abstract 152, *Journal of Food Protection* Vol 66 (Sup A): 112.
- Flores, R. A. 2002. Retention and distribution of Escherichia coli O157:H7 in beef processed with a mid-size commercial grinder. Society for Risk Analysis, 22<sup>nd</sup> Annual Meeting, December 8-11, New Orleans, Louisiana, Final Program and Abstracts pages 46-47.
- Flores, R. A., T. E. Stewart, and M. Tamplin. 2002. Distribution of Escherichia coli O157:H7 in ground meat resulting from a laboratory-scale grinder. Annual Meeting of the International Association for Food Protection, San Diego, California. Abstract 182, *Journal of Food Protection* Vol 65 (Sup A): 106.
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- Rosentrater, K. A., T. L. Richard, C. J. Bern, and R. A. Flores. 2002. Developing value added alternatives for corn masa coproducts. Corn Utilization Conference, June 3-5, Kansas City, Missouri. Conference Proceedings, page 205.
- Rosentrater, K. A., T. L. Richard, C. J. Bern, and R. A. Flores. 2002. Small scale extrusion of corn masa coproducts. Corn Utilization Conference, June 3-5, Kansas City, Missouri. Conference Proceedings, page 206.
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- Flores, R. A. 2001. Wheat millfeeds test project. 105<sup>th</sup> Annual Technical Conference & Trade Show, Association of Operative Millers, May 19-23, Louisville, Kentucky.
- Gandikota, S., MacRitchie, F., and R. A. Flores. 2001. Method for measuring the expansion capacity of doughs. Second International Wheat Quality Conference, May 20-24, Manhattan, Kansas.
- Kim, Y. S., R. A. Flores, O. K. Chung, and D. B. Bechtel. 2001. Physical and chemical characterization of wheat flour milling by-products. Second International Wheat Quality Conference, May 20-24, Manhattan, Kansas.
- Loza-Garay, M.A., R. A. Flores, and D. D. Eustace. 2001. Computer simulation for a flour mill: design, verification and validation. Second International Wheat Quality Conference, May 20-24, Manhattan, Kansas.
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Higiro, J. and R. A. Flores. 2000. Sorghum dry milling for grits production. 85<sup>th</sup> AACC Annual Meeting, Kansas City, Missouri. *Cereal Foods World* 45(8): 352.

Loza-Garay, M. A. and R. A. Flores. 2000. Stochastic analysis of the process characteristics in the flour mill. 85<sup>th</sup> AACC Annual Meeting, Kansas City, Missouri. *Cereal Foods World* 45(8): 348.

Kim, Y.S., D. S. Chung, and R. A. Flores. 2000. A computer simulation model of wheat flour storage and transportation systems. 85<sup>th</sup> AACC Annual Meeting, Kansas City, Missouri. *Cereal Foods World* 45(8): 344.

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Loza-Garay, M. and R. A. Flores. 2000. Computer Simulation of a Flour Mill as a Stochastic Model. FOODSIM'200, 1<sup>st</sup> International Conference on Simulation in Food and Bio Industries, Nantes, **France**.

Mao, Y. and R. A. Flores. 2000. Texture measurements of commercially available wheat flour tortilla. Paper 65B-32, Institute of Food Technologists Annual Meeting, Dallas, Texas.

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Flores, R. A. 2000. Determinación de la contaminación de harina con afrecho utilizando el contenido de cenizas, color y un contador de manchas de afrecho (Determination of bran contamination in wheat flours using ash content, color, and bran speck counts). 104<sup>th</sup> Annual Technical Conference & Trade Show, Association of Operative Millers, Kansas City, Missouri.

Flores, R.A. and D. Kuakpetoon. 2000. Effect of particle size on flour blending. Association of Operative Millers, Wheat State and Central Districts, April 7 & 8, Manhattan, Kansas.

Loza-Garay, M. and R. A. Flores. 2000. Simulation of the KSU Pilot Mill. Association of Operative Millers, Wheat State and Central Districts, April 7 & 8, Manhattan, Kansas.

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Flores, R. 2000. Determination of flour contamination with bran (Determinación de la Contaminación de Harina con Afrecho o Salvado). Avances Tecnológicos en Molinería de Trigo, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. 2000. Relationships between the physical characteristics of wheat blends and experimental milling (Relación de las Características Físicas de Mezclas de Trigo y la Molienda Experimental). Avances Tecnológicos en Molinería de Trigo, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

Flores, R. 2000. Flour milling statistics of the USA (Estadísticas de Producción Molinera en los E.U.A). Avances Tecnológicos en Molinería de Trigo, Departamento de Investigación y Posgrado en Alimentos, Universidad de Sonora, Hermosillo, Sonora, **Mexico**.

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