

R. P. Kingsly Ambrose

CONTACT INFORMATION	Department of Agricultural and Biological Engineering Purdue University West Lafayette, IN 47907 USA	Voice: 765.494.6599 Fax: 765.496.1115 Email: rambrose@purdue.edu Web: https://engineering.purdue.edu/FFP
RESEARCH INTERESTS	Agricultural Particulates; Powder flow; Particle characterization; Agglomeration; Milling and grain processing; Particle/powder modeling and simulation; Bulk materials handling; Grain dust explosion prevention.	
EDUCATION	<p>Purdue University, West Lafayette, IN, USA</p> <p>Ph.D. Agricultural and Biological Engineering, 2010 Dissertation title: <i>Caking behavior of corn distillers dried grains with solubles (DDGS)</i></p> <p>Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India</p> <p>M.S. Agricultural Processing, 1998 Thesis title: <i>Fabrication and performance evaluation of a brinjal seed extractor</i></p> <p>B.S. Agricultural Engineering, 1996</p>	
ACADEMIC POSITIONS	2018 - present 2015 - 2018 2012 - 2015 2011 2001 - 2007	Associate Professor, Purdue University Assistant Professor, Purdue University Assistant Professor, Kansas State University Postdoctoral RA, Purdue University Scientist, CIPHET, ICAR, Punjab, India
AWARDS AND RECOGNITIONS	2019 - 2022 2018 - 2018 2018 2018 2017 2016 2014 2010 2009 2006 2005 2005 2005 1999 1999	<p>Fulbright Specialist Roster</p> <p>Permanent Guest Member. Working Party on Mechanics of Particulate Solids, European Federation of Chemical Engineering</p> <p>Seed for Success, Purdue University</p> <p>ASABE Educational Aids Blue Ribbon Award for 'Grain Drying, Handling, and Storage Handbook – MWPS-13'. (Maier, D., McNeill, S., Hellevang, K., Ambrose, R. P. K., Ileleji, K. E., Jones, C. and Purschwitz, M.)</p> <p>Outstanding Reviewer, ASABE: Processing Systems</p> <p>ASABE Educational Aids Blue Ribbon Award for 'Training on prevention of grain dust explosions' (Ambrose, R. P. K., Mosher, G. A. and Maier, D. E.)</p> <p>2nd Prize. I2D Expo Poster Presentation, Purdue University</p> <p>The Andersons Cereals and Oilseeds Early-in-Career Award of Excellence</p> <p>Bilsland Dissertation Fellowship, Purdue University</p> <p>Purdue Agriculture TEAM Award, 2009. The Integrated Corn Ethanol Co-Products Team. Purdue University</p> <p>Norman E. Borlaug Fellowship, USDA</p> <p>Best Paper. Seminar on "Food quality and safety standards of agricultural raw and processed produce" New Delhi, India.</p> <p>Best Scientist, CIPHET, Punjab, India.</p> <p>Certificate of Appreciation, CIPHET, Punjab, India.</p> <p>National Eligibility Test Certificate, Agricultural Scientists Recruitment Board, ICAR, India.</p> <p>First Rank, Agricultural Structures and Process Engineering, National level Agricultural Research Service (ARS) examination, ICAR, India</p>

	1996 - 1998	Merit Scholarship, Tamil Nadu Agricultural University, India.	
PROFESSIONAL AFFILIATION	2007 - present 2015 - present Life member 2011 - 2018	American Society of Agricultural and Biological Engineers (ASABE) American Institute of Chemical Engineers (AIChE) Indian Society of Agricultural Engineers (ISAE) American Association of Cereal Chemists (AACC International)	
TEACHING	2016 - present	ABE 30500	Physical Properties of Biological Materials. 3 credits. every Fall.
	2016 - present	ASM 55000	Cereal Grain Drying and Storage. 3 credits. every even Spring.
	2017 - present	ME 53100/ ABE 59100	Characterization of Particles, Powders and Compacts. 3 credits. every odd Spring.
	2016 (Fall)	ABE 59100/ FS 45500	Cereal Chemistry and Processing 1 credit. Co-taught with Dr. Bruce Hamaker.
	2012 - 2015	GRSC 310	Materials Handling. 3 credits. every Spring.
	2015 (Spring)	GRSC 310 ZA	Materials Handling. 3 credits. distance delivery.
	2013 - present	GEAPS 544	Preventing Grain Dust Explosions. distance delivery.
	2013 - 2015	GRSC 780	Particle Technology for Solids Handling and Processing. 3 credits. every Spring
	2014 (Spring)	GRSC 840	Advanced Grain Processing. 3 credits.
GRADUATE STUDENTS SUPERVISED	Zhengpu Chen Karthik Salish Camila Jange Yumeng Zhao Kaliramesh Siliveru Hector Lopez Zhengpu Chen Camila Jange Yanjie Chen Vaibhav Pathak Achint Sanghi Yumeng Zhao Qi Bian Abhay Patwa		Ph.D. expected 2023 (co-advised with Prof. Wassgren) Ph.D. expected 2022 Ph.D. expected 2022 Ph.D., 2020 Ph.D., 2016 M.S., 2020 (co-advised with Dr. Carvajal) M.S., 2019 (co-advised with Prof. Wassgren) M.S., 2018 M.S., 2018 M.S., 2018 M.S., 2017 M.S., 2016 M.S., 2014 M.S., 2014
GRADUATE STUDENTS – COMMITTEE MEMBER	Abhishek Paul Sonal Bhujbal Shivani Kshirsagar Elizabeth Wachs Sanjay Kunal Pardikar Yu Liu Kanjakha Pal Rohit Kumar David Acevado Shrikant Swaminathan Jonathan Wilson Zhongzong Niu		Ph.D. in Mechanical Engineering, 2022 (Exp.) Ph.D. in IPPH, 2021 (Exp.) Ph.D. in Chemical Engineering, 2021 (Exp.) Ph.D. in Agricultural and Biological Engineering, 2020 Ph.D. in Mechanical Engineering, 2020 Ph.D. in Mechanical Engineering, 2019 Ph.D. in Chemical Engineering, 2019 Ph.D. in Mechanical Engineering, 2018 Ph.D. in Chemical Engineering, 2017 Ph.D. in Mechanical Engineering, 2016 Ph.D. in Grain Science, 2015 M.S. in Agricultural and Biological Engg., 2021 (Exp.)

	Nathan Gatseyer	M.S. in Mechanical Engineering, 2020
	Rohit Sabharwal	M.S. in Computer and Information Technology, 2019
	Diana Ramirez	M.S. in Agricultural and Biological Engineering, 2019
	Mingyuan Chen	M.S. in Agricultural and Biological Engineering, 2019
	Marisol Otero Pantoja	M.S. in Agricultural and Biological Engineering, 2018
	Sidhartha Agarwal	M.S. in Mechanical Engineering, 2017
	Harsh Ranjan	M.S. in Mechanical Engineering, 2017
	Ravindra Shrestha	M.S. in Agricultural and Biological Engineering, 2017
	Cameron McGuire	M.S. in Grain Science, 2017
	Sam Cook	M.S. in Grain Science, 2016
	Morgan Gray	M.S. in Grain Science, 2015
	Yanguang Liu	M.S. in Grain Science, 2015
	Kuoame Yao	M.S. in Grain Science, 2014
	Erika Anderson	M.S. in Food Science, 2014
	Purnima Rai	M.S. in Grain Science, 2014
POST-DOCTORAL RA'S	Dr. Yumeng Zhao	2020-present
	Dr. Ben Plumier	2018-2019
	Dr. Rumela Bhadra	2014-2015
	Dr. Josephine Boac	2013-2014
VISITING SCHOLARS	Dr. Xiaoxi Kou	Northwest A&F University, China. 2019-2020. (Research: Moisture diffusion in corn kernels)
	Jose Gamboa Gamboa	Universidad Nacional De Colombia, Colombia. 2018 (Research: Image analysis of rice kernels)
	Jiajia Fang	Inner Mongolia Agricultural University, China. 2018- 2019 (Research: Modeling the compaction of alfalfa)
	Kelly Johanna Patarroyo	Universidad Nacional De Colombia, Colombia. 2018. (Research: Light sensitive coating for urea granules)
	Ghulam Murtaza	University of Agriculture, Faisalabad, Pakistan. 2016- 2017 (Research: Modeling solar drying of paddy)
	Vinti Singla	NIFTEM, India. 2015-2016. (Research: Modeling powder mixing)
	Dr. Mavis Owureku-Asare	BNARI, Ghana. 2015-2016. (Research: Optimization of solar dryers for tomatoes in Ghana)
	Nathalia Periera Silva	University of Wisconsin-River Falls. 2015 (Research: Flow property evaluation of food powders)
	Dr. M.R. Manikantan	ICAR, India. 2014 (Research: Flow properties of coconut powders)
	Lauriel Stewart	Tuskegee University. 2014 (Research: Coefficient of restitution of grain kernels)
	Jeevan Upreti	NIFTEM, India. 2013 (Research: PIV analysis of DDGS hopper flow)
	Vikas Kumar	IIT Kharagpur, India. 2013 (Research: Modeling the spray coating process)
	Michael Pordesimo	Rose-Hulman Institute of Technology. 2013 (Research: Flour particle segregation)
UNDERGRADUATE STUDENTS	Shiying Chen	2019 (Research: Caking of sugar)
	Adam Hemmelgarn	2019-2020 (Research: DEM Modeling of grain properties)

Shuyi Peng	2018-2019 (Research: Flow properties of starch powders)
Xinruo Wang	2018 (Research: Coating of urea granules)
Quijue Chen	2018 (Research: Compression of corn kernels)
Hilal Kesim	2018 (Research: Image processing of rice kernels)
Michelle Dixon	2016-2017 (Research: Flow properties of food ingredients)
Mishank Shah	2017 (Research: Adhesion of seed flow lubricants)
Jacob Bennett	2015-2016 (Research: Seed coating)
Farrukh Ahmad	2014 (Research: Whole grain milling)
Matt Santler	2014 (Research: Dust cloud in controlled facilities)
Daniel Buyonsky	2013 (Research: Effect of mixing on flour rheology)
Sriram Perumal	2013 (Research: Developing a wheat mill simulation model)
Sam Cook	2012 (Research: Flow properties of tuber crop powders)

UNDERGRADUATE
TEAM PROJECTS

Soy Innovation Competition. Team members: Shuyi Peng, Jingyuan Li, Zifeng Huan, Kunming Shao.	2019-2020. Project: Phone case from soybean plastics.
ABE Senior Capstone Design Project Soy Innovation Competition. Team members: Elizabeth Tedder, Susan Habbard, Kiersten Troyer.	2019-2020 2016-2017
ABE Senior Capstone Design Project. Team members: Luke Schnur, Joel Hawbaker, Evan Bourne.	2016-2017. Project: Design of fertilizer plant
ABE Senior Capstone Design Project. Team members: Alex Emenhiser, Alex Haan, Jacob Schueler	2015-2016. Project: John Deere-Corn damage sorting

HONORS AND
AWARDS WON BY
RESEARCH
GROUP MEMBERS

2020	Zhengpu Chen. Outstanding M.S. Student, Agricultural and Biological Engineering Department, Purdue University
2020	Dr. Ben Plumier. Outstanding Reviewer. ASABE Processing Systems.
2019	Adam Hemmelgarn. 3 rd Prize, ASABE K.K. Barnes Undergraduate Student Research Award
2017	Michelle Dixon. 3 rd Prize, ASABE K.K. Barnes Undergraduate Student Research Award
2016	Jacob Bennett. Top Research Poster, The 2016 SURF Research Symposium, Purdue University
2016	Kaliramesh Siliveru. AACCI Milling & Baking Division invited talk and graduate student travel fellowship.
2016	Kaliramesh Siliveru. Outstanding Ph.D. student, Grain Science and Industry Department, Kansas State University
2015	Kaliramesh Siliveru, Yumeng Zhao. AACCI Travel Award
2015	Kaliramesh Siliveru. AACCI Texture Technologies Best Paper Award
2015	Achint Sanghi. USDA Borlaug Fellowship
2015	Kaliramesh Siliveru. Graduate Student Council travel award, Kansas State University
2014	Abhay Patwa. Outstanding M.S. student, Grain Science and Industry Department, Kansas State University
2014	Abhay Patwa. Graduate Student Council travel award, Kansas State University
2014	Qi Bian. Graduate Student Council travel award, Kansas State University
2014	Kaliramesh Siliveru. Distillers Grains Tech Council Scholarship
2014	Kaliramesh Siliveru. Lola Lee Jackson Travel Award, Grain Science and Industry Department, Kansas State University

	2014	Dr. Josephine Boac. Kansas Section Young Member of ASABE
	2013	Abhay Patwa. Graduate Student Council travel award, Kansas State University
PATENT/ DISCLOSURE/ COPYRIGHT	2020	Ambrose, R. P. K., Zhao, Y. & Niu, Z. Algorithm for sensing explosive dust concentration. U.S. Copyright Application No. 1-8444233801.
	2019	Ambrose, R. P. K., Zhao, Y. & Niu, Z. Dust concentration sensing method using photograph/digital camera. U.S. Patent Provisional Application No. 62942773.
	2018	Ambrose, R. P. K. & Salish, K. Systems and methods for promoting bulk powder flow. U.S. Patent Provisional Application No. 68186-01.
	2018	Ambrose, R. P. K., Chen, Y., Wassgren, C. & Pai, D. Layer-wise agglomerated urea granules. U.S. Patent Provisional Application No. 62777261.
	2004	Jha, S.N., Chopra, S. & Kingsly, A.R.P. Method of determining maturity of intact mango on tree. Indian Patent No. 250880 (Filing: Dec 02, 2004. Issued: Feb 02, 2012)
TECHNOLOGIES TRANSFERRED TO INDUSTRY	2006	Algorithm for Maturity Index Calculation and Development of Color Chart for Mango, Neotel Systems and Services, Chandigarh, India.
	2006	Process technology for making <i>aonla</i> beverage, Mr. Chaudhary, Kot Puthli, Rajasthan, India.
INVITED TALKS	2020	Discrete element method (DEM) modeling for Agricultural Engineers. Tamil Nadu Agricultural University, India. 08/10/2020. (Webinar)
	2020	Prevention of Grain Dust Explosions. Grain Elevator and Processing Society (GEAPS). 07/23/2020. (Webinar)
	2020	Dust explosions. Amity University, India. 06/29/2020. (Webinar)
	2020	Determination of material and interaction properties of corn and wheat kernels for DEM simulations. Indian Society of Agricultural Engineers Annual Meeting. Pune, India. 01/08/2020.
	2019	Discrete element methods used in grain/seed processing industry. Invited Session on 'Use of Models to Study Crop Drying, Handling and Storage'. <i>ASABE Annual International Meeting Paper No. 1901918</i> . St. Joseph, MI: ASABE.
	2019	Grain dust explosion. China Agricultural University, Beijing, China. 05/16/2019.
	2018	Food particulates. Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, Beijing, China. 05/29/2018.
	2018	Particle technology impact on grain, food and feed processing. China Agricultural University, Beijing, China. 05/24/2018.
	2018	Effect of surface composition on powder flow properties. Short course on 'New technologies for characterization of oral solids: shape, water sorption and surface energy' The Mexican Pharmaceutical Association, Mexico City, Mexico. 05/14/2018.
	2018	Food powder processing: Challenges and opportunities. International Conference on 'Innovations and challenges in food processing sector', St. Theresa's college, Ernakulum, India, 02/10/2018.
	2018	Particle modeling and design.

- 46th Dairy Industry Conference, Indian Dairy Association, Cochin, India, 02/09/2018.
- 2017 Grain dust explosions: preventive precaution. Purdue Process Safety and Assurance Center (P2SAC) Fall Conference, Purdue University, 12/05/2017.
- 2016 Grain dust explosion. Grain Elevators and Processing Society (GEAPS) Exchange, Austin, TX. 03/01/2016.
- 2015 Designer particulate products. Iowa State University, Ames, IA. 11/23/2015.
- 2015 Particle technology research at Purdue. Abbott Nutrition, Singapore. 10/05/2015.
- 2014 Understanding the challenges in cereal grain handling and processing. Institute of Chemical Engineering Sciences, Agency for Science Technology and Research, Singapore. 12/29/2014.
- 2014 Applying particle concepts in cereal grain processing. Abbott Nutrition, Singapore. 12/30/2014
- 2014 Understanding the solids of biological origin. Mechanical Engineering Technology Division, KSU-Salina. 12/09/2014
- 2014 Bulk grain and co-products handling. Academy of State Administration of Grain, Beijing, China. 05/27/2014.
- 2014 Particle modeling applications in grain processing. Henan University of Technology, Zhengzhou, China. 05/26/2014.
- 2014 Bulk solids research program at Kansas State University. Powder and Bulk Solids Show, Chicago, IL. 05/08/2014.
- 2014 Food powder technology – importance and applications. McCormick Foods, Baltimore, MD. 01/30/2014.
- 2014 Advances in particle technology. McCormick Foods, Baltimore, MD. 01/30/2014.
- 2013 Application of particle technology in food engineering. Department of Food Engineering, Sant Longowal Institute of Engineering and Technology, Punjab, India. 11/26/2013.
- 2013 Milling and grain processing. Department of Chemical Engineering, University of Manchester, Manchester, UK. 09/27/2013.
- 2013 DEM modeling applications in grain processing. DEM Solutions, Edinburgh, UK. 09/25/2013.
- 2013 An overview of milling and grain processing research at KSU. Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, India. 06/07/2013.
- 2012 Particle technology research at Kansas State University. ADM Co. representatives at Manhattan, KS. 10/16/2012.
- 2012 Application of particle technology in food processing. Department of Food Science, University of Nebraska, Lincoln, NE. 09/24/2012.
- 2012 Establishing a particle technology laboratory. ADM Co., Kansas City, KS. 06/29/2012.
- 2012 Application of particle technology in milling and grain processing. Grain Science-AACCI Manhattan Seminar on 04/18/2012.

PEER REVIEWED
JOURNAL
ARTICLES

- 88 Chen, Z.[†], Wassgren, C. and Ambrose, R. P. K. 2020. Measured damage resistance of corn and wheat kernels to compression, friction, and repeated impacts. *Powder Technology*. (Accepted).

- ([†] Graduate student; [‡] Post-doctoral RA/Visiting scholar; *Undergraduate student supervised by Dr. Ambrose)
- 87 Pushpadass, H. A., Mitra, H., Emerald, F. M. E., Ghoroi, C., Ambrose, R. P. K. and Nath, S. B. 2020. Physicochemical, thermal and flow properties of ice cream powder as influenced by moisture content. *Journal of Food Processing and Preservation* (Accepted).
- 86 Dolphin, C. J., Mosher, G. A., Ambrose, R. P. K. and Ryan, S. J. 2020. Meeting the tolerance: How successful is the segregation of non-genetically modified corn. *Applied Engineering in Agriculture*. 36(5): 777-784.
- 85 Zhao, Y. [†] and Ambrose, R. P. K. 2020. A real-time method for sensing suspended dust concentration from the light extinction coefficient. *Journal of Loss Prevention in the Process Industries*. 67: 104242.
- 84 Petingco, M. C., Casada, M. E., Maghirang, R. G., Chen, Z. [†], Fasina, O. O. and Ambrose, R. P. K. 2020. Influence of particle shape and contact parameters on DEM simulated bulk density of wheat. *Transactions of the ASABE* (Accepted).
- 83 Plumier, B. [‡], Zhao, Y. [†], Casada, M., Maghirang, R. and Ambrose, R. P. K. 2020. Analysis of corn dust particle properties and how surface roughness influences adhesion. *Transactions of the ASABE*. 63(5): 1493-1497.
- 82 Jange, C. J. [†], Taku, P. [‡], Peng, S. ^{*}, Dixon, M., Shetty, A. and Ambrose, R. P. K. 2020. Cohesivity assessment of semi-crystalline and crystalline powders using a Warren Spring cohesion tester. *Powder Technology*. 371: 96-105.
- 81 Chen, Z. [†], Wassgren, C., Veikle, E. and Ambrose, R. P. K. 2020. Determination of material and interaction properties of maize and wheat kernels for DEM simulation. *Biosystems Engineering*. 195: 208-226.
- 80 Zhang, Y., Zhu, G., Li, X., Zhao, Y., Ding, G., Ambrose, R. P. K. and Liu, Y. 2020. Combined mid-infrared and hot air impingement drying of sponge guard (*Luffa cylindrical*) slices. *Journal of Food Engineering*. 284: 110043.
- 79 Chen, Z. [†], Wassgren, C. and Ambrose, R. P. K. 2020. Measurements of grain kernel friction coefficients using a reciprocating-pin tribometer. *Transactions of the ASABE*. 63(3): 675-685.
- 78 Zhao [†], Y., Phalswal, P. [‡], Shetty, A. and Ambrose, R. P. K. 2020. Effect of powder vibration and time consolidation on soft and hard wheat flour properties. *Kona Powder and Particle Journal*. (Accepted).
- 77 Plumier, B. [‡], Zhao [†], Y., Casada, M., Maghirang, R. and Ambrose, R. P. K. 2020. Dust content and adhesion characteristics of five corn samples. *Transactions of the ASABE*. 63(2): 495-499.
- 76 Chen, Z. [†], Wassgren, C. and Ambrose, R. P. K. 2020. A review of grain kernel damage: Mechanisms, modeling, and testing procedures. *Transactions of the ASABE*. 63(2): 455-475.
- 75 Jange, C. [†] and Ambrose, R. P. K. 2020. Quantifying the influence of surface chemical composition on surface energy during powder flow. *Particulate Science and Technology*. (In Press).
- 74 Salish, K. [†], Mosher, G. A. and Ambrose, R. P. K. 2020. Developing a graphical user interface (GUI) to predict the contamination of GM corn in Non-GM corn. *Applied Engineering in Agriculture*. 36(1): 25-31.
- 73 Pathak, V. [†] and Ambrose, R. P. K. 2020. Starch-based biodegradable hydrogel as seed coating for corn to improve early growth under water shortage. *Journal of Applied Polymer Science*. 137(14): 48523.
- 72 Plumier, B. [‡], Zhao, Y. [†], Cook, S. and Ambrose, R. P. K. 2019. Adhesion of diatomaceous earth dusts on wheat and corn kernels. *Journal of Stored Products Research*. 83: 347-352.
- 71 Zhao, Y. [†] and Ambrose, R. P. K. 2019. Modeling dust dispersion and suspension pattern under turbulence. *Journal of Loss Prevention in the Process Industries*. 62: 103934.

- 70 Siliveru, K.[†], Casada, M. and Ambrose, R. P. K. 2019. Heat transfer during cooling of bulk distillers dried grains with solubles (DDGS). *Applied Engineering in Agriculture*. 35(4): 569-577.
- 69 Jange, C. G.[†] and Ambrose, R. P. K. 2019. Effect of surface compositional difference on powder flow properties. *Powder Technology*. 344: 363-372.
- 68 Akowuah, J. O., Maier, D., Opit, G., McNeill, S., Armstrong, P., Campabadal, C., Ambrose, R. P. K. and Obeng-Akrofi, G. 2018. Drying temperature effect of kernel damage and viability of maize dried in a solar biomass hybrid dryer. *Open Journal of Applied Sciences*. 8(11): 506-517.
- 67 Owureku-Asare, M.[‡], Oduro, I., Saalia, F. K., Tortoe, C. and Ambrose, R. P. K. 2018. Physicochemical and nutritional characteristics of solar and sun-dried tomato powder. *Journal of Food Research*. 7(6): 1-15.
- 66 Xu, B., Mense, A., Ambrose, R. P. K., Graybosch, R. and Shi, Y-C. 2018. Milling performance of waxy wheat and wild type wheat using two laboratory milling methods. *Cereal Chemistry*. 95: 708-719.
- 65 Babu, K. S., Siliveru, K.[†], Amamcharla, J. K., Vadlani, P. V. and Ambrose, R. P. K. 2018. Influence of protein content and storage temperature on the particle morphology and flowability characteristics of milk protein concentrate powders. *Journal of Dairy Science*. 101(8): 7013 - 7026.
- 64 Zhao, Y.[†] and Ambrose, R. P. K. 2018. A laboratory scale tempering and milling method for grain sorghum. *Transactions of the ASABE*. 61(2): 713-721.
- 63 Kwek, J. W., Siliveru, K.[†], Cheng, S., Xu, Q., Ambrose, R. P. K. 2018. Zein film functionalized atomic force microscopy and Raman spectroscopic evaluations on surface differences between hard and soft wheat flour. *Journal of Cereal Science*. 79: 66-72.
- 62 Bhadra, R.[‡], Ambrose, R. P. K., Casada, M. E., Simsek, S. and Siliveru, K.[†]. 2017. Air and moisture transport properties of low-oil DDGS. *Cereal Chemistry*. 94(6): 934-941.
- 61 Sanghi, A.[†], Ambrose, R. P. K. and Maier, D. E. 2017. CFD simulation of corn drying in a natural convection solar dryer. *Drying Technology*. 36(7): 859-870.
- 60 Siliveru, K.[†], Jange, C. G.[†], Kwek, J. W. and Ambrose, R. P. K. 2017. Granular bond number model to predict the flow of fine flour powders using particle properties. *Journal of Food Engineering*. 208:11-18.
- 59 Mitra, H., Pushpadass, H. A., Emerald, F. M. E., Ambrose, R. P. K., Ghoroi, C. and Nath, S. 2017. Influence of moisture content on the flow properties of *basundi* mix. *Powder Technology*. 312:133-143.
- 58 Bhadra, R.[‡], Ambrose, R. P. K., Casada, M., Simsek, S. and Siliveru, K.[†] 2017. Optimization and modeling of flow characteristics of low-oil DDGS using regression techniques. *Transactions of the ASABE*. 60(1): 249-258.
- 57 Jan, S., Ambrose, R. P. K. and Saxena, D. C. 2017. Effect of grinding action on the flowability of rice flour. *Journal of Food Measurement and Characterization*. 11(2): 801-811.
- 56 Zhao, Y.[†] and Ambrose, R. P. K. 2017. Structural characteristics of sorghum kernel: Effect of temperature. *International Journal of Food Properties*. 11: 2630-2638.
- 55 Owureku-Asare, M.[‡], Ambrose, R. P. K., Oduro, I., Tortoe, C. and Saalia, F. K. 2017. Consumer knowledge, preference and perceived quality of dried tomato in Ghana. *Food Science & Nutrition*. 5: 617-624.
- 54 Siliveru, K.[†], Ambrose, R. P. K. and Vadlani, P. V. 2016. Significance of composition and particle size on the shear flow properties of wheat flour. *Journal of the Science of Food and Agriculture*. 97: 2300-2306.

- 53 Ambrose, R. P. K., Ileleji, K. E., Doane, P. and Cecava, M. 2016. Liquid holding capacity of corn wet mill liquid coproducts to corn stover. *Applied Engineering in Agriculture*. 32(6): 909-914.
- 52 Patwa, A.[†], Ambrose, R. P. K. and Casada, M. E. 2016. Discrete element method as an approach to model the wheat milling process. *Powder Technology*. 302: 350-356.
- 51 Ileleji, K. E., Li, Y., Ambrose, R. P. K. and Doane, P. H. 2016. Experimental investigations towards understanding important parameters in wet drum granulation of corn stover biomass. *Powder Technology*. 300: 126-135.
- 50 Manikantan, M. R.[‡], Ambrose, R. P. K. and Alavi, S. 2016. Dynamic flow properties of coconut flours. *International Journal of Food Engineering*. 12(6): 577-586.
- 49 Sanghi, A.[†] and Ambrose, R. P. K. 2016. Analysis of the effect of prevailing weather conditions on the occurrence of grain dust explosions. *Journal of Agricultural Safety and Health*. 22(3): 187-197.
- 48 Siliveru, K.[†], Kwek, J. W., Lau, G. M. L. and Ambrose, R. P. K. 2016. An image analysis approach to understand the differences in flour particle surface and shape characteristics. *Cereal Chemistry*. 93: 234-241.
- 47 Ambrose, R. P. K., Jan, S. and Siliveru, K.[†]. 2016. A review on flow characterization methods for cereal grain-based powders. *Journal of the Science of Food and Agriculture*. 96:359-364. [Invited review].
- 46 Manikantan, M.R.[‡], Ambrose, R. P. K. and Alavi, S. 2015. Flow-specific physical properties of coconut flours. *International Agrophysics*. 29: 459-465.
- 45 Bian, Q.[†], Ambrose, R. P. K. and Subramanyam, B. 2015. Effects of chaff on bulk flow properties of wheat. *Journal of Stored Products Research*. 64:21-26.
- 44 Bian, Q.[†], Ambrose, R. P. K. and Subramanyam, B. 2015. Effects of insect-infested kernels on bulk flow properties of wheat. *Journal of Stored Products Research*. 63:51-56.
- 43 Bian, Q.[†], Sittipod, S., Garg, A. and Ambrose, R. P. K. 2015. Bulk flow properties of hard and soft wheat flours. *Journal of Cereal Science* 63: 88-94.
- 42 Yang, G., Xia, B., Kingsly, A. R. P., Zhou, W., Qiu, H., Liu, Q. and Chen, J. 2015. Effect of intermittent drying and tempering on quality of higher moisture rice. *Journal of the Chinese Cereals and Oils Association*. 30(1): 102-106,111 (*In Chinese*).
- 41 Guo-Feng, Y., Wen, Z., Ambrose, R. P. K., Bao-lin, X., Hong-juan, Q., Qiang, L., Yue, Z. and Jiang, C. 2014. Effects of high temperature single-pass drying process and drying-aerating process on post-drying quality of rough rice. *Food Science, China*. 35(17): 1-7 (*In Chinese*).
- 40 Boac, J. M.[‡], Ambrose, R. P. K., Casada, M. E., Maghirang, R. G. and Maier, D. E. 2014. Applications of discrete element method in modeling of grain postharvest operations. *Food Engineering Reviews*. 6:128-149.
- 39 Patwa, A.[†], Ambrose, R. P. K., Dogan, H. and Casada, M. 2014. Wheat mill stream properties for discrete element method modeling. *Transactions of the ASABE* 57(3): 891-899.
- 38 Patwa, A.[†], Malcolm, B., Wilson, J. and Ambrose, R.P.K. 2014. Particle size analysis of two distinct classes of wheat flour by sieving. *Transactions of the ASABE* 57(1):151-159.
- 37 Probst, K., Ambrose, K., Pinto, R.L., Bali, R., Krishnakumar, P. and Ileleji, K.E. 2013. The effect of moisture content on the grinding performance of corn and corncobs by hammermilling. *Transactions of the ASABE* 56(3): 1025-1033.
- 36 Probst, K., Ileleji, K.E., Kingsly, A.R.P., Clementson, C.L. and Garcia, A. 2013. Effect of condensed distillers solubles on the physical, chemical properties and moisture sorption isotherm of corn DDGS – Bench scale experiments. *Biosystems Engineering* 115: 221-229.

- 35 Kingsly, A.R.P, Ileleji, K.E. and Stroshine, R.L. 2013. Stress relaxation behavior of corn distillers dried grains with solubles (DDGS) in relation to caking. *Powder Technology* 235: 866-872.
- 34 Kingsly, A.R.P. and Ileleji, K.E. 2011. Glass transition behavior of corn distillers dried grains with solubles (DDGS). *Journal of Cereal Science* 54: 332-338.
- 33 Singh, D.B., Singh, R., Kingsly, A.R.P. and Sharma, R.R. 2011. Effect of *Aloe vera* coatings on fruit quality and storability of strawberry (*Fragaria xananassa*). *Indian Journal of Agricultural Sciences*. 81(5): 407-412.
- 32 Ileleji, K.E., Garcia, A., Kingsly, A.R.P. and Clementson, C.L. 2010. A comparison of standard moisture loss on drying methods to determine the moisture content of corn distillers dried grains with solubles (DDGS). *Journal of AOAC International*. 93(3): 825-832.
- 31 Kingsly, A.R.P., Ileleji, K.E., Clementson, C.L., Garcia, A., Maier, D.E., Stroshine, R.L. and Radcliff, S. 2010. The effect of process variables on the physical and chemical characteristics of distillers dried grains with solubles (DDGS) – Plant scale experiments. *Bioresource Technology*. 101(1): 193-199.
- 30 Kingsly, A.R.P. and Ileleji, K.E. 2009. Sorption isotherm of corn distillers dried grains with solubles and its prediction using chemical composition. *Food Chemistry*. 116(4): 939-946.
- 29 Kingsly, A.R.P. and Ileleji, K.E. 2009. Modeling moisture sorption isotherm of corn dried distillers grains with solubles (DDGS) using artificial neural network. *Transactions of ASABE*. 52(1): 213-222.
- 28 Kingsly, A.R.P., Balasubramaniam, V.M. and Rastogi, N.K. 2009. Influence of high pressure blanching on polyphenoloxidase activity of peach fruits and its drying behavior. *International Journal of Food Properties*. 12(3): 671-680.
- 27 Kingsly, A.R.P., Balasubramaniam, V.M. and Rastogi, N.K. 2009. Effect of high pressure processing on texture and drying behavior of pineapple. *Journal of Food Process Engineering*. 32(3): 369-381.
- 26 Meena, H.R., Kingsly, A.R.P. and Jain, R.K. 2009. Effect of post-harvest treatments on shelf life of *ber* fruits. *Indian Journal of Horticulture*. 66(1):58-61.
- 25 Meena, H.R., Kingsly, A.R.P. and Jain, R.K. 2009. Physical and mechanical properties of different *ber* cultivars. *Indian Journal of Horticulture*. 66(2):261-264.
- 24 Jha, S.N., Chopra, S. and Kingsly, A.R.P. 2009. On-farm non-destructive determination of maturity of intact mango fruits. *Indian Journal of Horticulture*. 66(3): 353-357.
- 23 Singh, D.B., Goyal, R.K. and Kingsly, A.R.P. 2009. Quality of dehydrated plum slices as affected by pretreatments and drying temperature. *The Asian Journal of Horticulture*. 4(1): 95-98.
- 22 Naveena, B.M., Sen, A.R., Kingsly, R.P., Singh, D.B. and Kondaiah, N. 2008. Antioxidant activity of pomegranate rind powder extract in cooked chicken patties. *International Journal of Food Science and Technology*. 43(10): 1807- 1812.
- 21 Singh D.B. and Kingsly, A.R.P. 2008. Effect of convective drying on quality of *anardana*. *Indian Journal of Horticulture*. 65(4): 413-416.
- 20 Goyal, R.K., Patil, R.T., Kingsly, A.R.P., Walia, H. and Kumar, P. 2008. Status of postharvest technology of *aonla* in India – A review. *American Journal of Food Technology*. 3(1):13-23.
- 19 Kingsly, R.P., Goyal, R.K., Manikantan, M.R. and Ilyas, S.M. 2007. Effect of pretreatments and drying air temperature on drying behavior of peach slice. *International Journal of Food Science and Technology*. 42: 65-69.
- 18 Kingsly, A.R.P. and Singh, D.B. 2007. Drying kinetics of pomegranate arils. *Journal of Food Engineering*. 79: 741-744.

- 17 Kingsly, A.R.P., Meena, H.R., Jain, R.K. and Singh, D.B. 2007. Shrinkage of *ber* (*Zizyphus mauritian* L.) fruits during sun drying. *Journal of Food Engineering*. 79(1): 6-10.
- 16 Goyal, R.K., Kingsly, A.R.P., Kumar, P. and Walia, H. 2007. Physical and mechanical properties of *aonla* fruits. *Journal of Food Engineering*. 82: 595-599.
- 15 Singh, D.B. and Kingsly, A.R.P. 2007. Studies on separation techniques of pomegranate arils and their effect on quality of *anardana*. *Journal of Food Engineering*. 79: 671-674.
- 14 Goyal, R.K., Kingsly, A.R.P., Manikantan, M.R. and Ilyas, S.M. 2007. Mathematical modeling of thin layer drying kinetics of plum in a tunnel dryer. *Journal of Food Engineering*. 79(1): 176-180.
- 13 Jha, S.N., Chopra, S. and Kingsly, A.R.P. 2007. Modeling of color values for nondestructive evaluation of maturity of mango. *Journal of Food Engineering*. 78(1): 22-26.
- 12 Singh, D.B. and Kingsly, A.R.P. 2007. Regulation of *bahar* in pomegranate (*Punica granatum*) to control fruit cracking and improve the quality. *Indian Journal of Agricultural Sciences*. 77(10): 692-694.
- 11 Singh, D.B., Kingsly, A.R.P., Meena, H.R. and Kaur, N. 2007. Studies on physico-chemical and nutritional properties of pomegranate rind powder. *Indian Journal of Horticulture*. 64(2): 155-158.
- 10 Kingsly, A.R.P., Rajbir Singh, Goyal, R.K. and Singh, D.B. 2007. Thin-layer drying behavior of organically produced tomato. *American Journal of Food Technology*. 2(2): 71-78.
- 9 Kingsly, A.R.P., Singh, D.B., Manikantan, M.R. and Jain, R.K. 2006. Moisture dependent physical properties of dried pomegranate seeds (*Anardana*). *Journal of Food Engineering*. 75(4): 492-496.
- 8 Goyal, R.K., Kingsly, A.R.P., Manikantan, M.R. and Ilyas, S.M. 2006. Thin-layer drying kinetics of raw mango slices. *Biosystems Engineering*. 95(1): 43-49. (*Top 25 hottest articles, July – December, 2006*).
- 7 Jha, S.N., Kingsly, A.R.P. and Chopra, S. 2006. Non-destructive determination of firmness and yellowness of mango during growth and storage using visual spectroscopy. *Biosystems Engineering*. 94(3): 397-402. (*Top 25 hottest articles, July – September, 2006*).
- 6 Jha, S.N., Kingsly, A.R.P. and Chopra, S. 2006. Physical and mechanical properties of mango during growth and storage for determination of maturity. *Journal of Food Engineering*. 72: 73-76. (*Top 25 hottest articles, July – September, 2005*).
- 5 Jha, S.N., Chopra, S. and Kingsly, A.R.P. 2005. Determination of sweetness of intact mango using visual spectral analysis. *Biosystems Engineering*. 91 (2): 157-161.
- 4 Meena, H.R., Kingsly, A.R.P. and Jain, R.K. 2005. Storage studies on *ber* fruits (Cv. Umran) in zero energy cool chamber. *New Agriculturist*. 16(1, 2): 143 – 145.
- 3 Sajeev, M.S., Manikantan, M.R., Kingsly, A.R.P., Moorthy, S.N. and Sreekumar, J. 2004. Texture analysis of taro (*Colocasia esculenta* L. Schott) cormels during storage and cooking. *Journal of Food Science*. 69 (7): 315-321.
- 2 Meena, H.R., Kingsly, A.R.P. and Jain, R.K. 2004. Studies on shelf life of *ber* fruits (cv. Umran). *Journal of Food, Nutrition and Dietetics*. 2(1): 19 – 25.
- 1 Kailappan, R., Rose Prabin Kingsly, A. and Varadharaju, N. 2001. Fabrication and performance evaluation of brinjal seed extractor. *Agricultural Mechanization in Asia, Africa and Latin America*. 32 (1): 38-42.
- 7 Bian, Q., Ambrose, K. and Bhadriraju, S. 2014. Effect of *Rhizopertha dominica* (F.) infestations on the bulk wheat flowability. In *Proceedings of the 11th International*

EDITOR
REVIEWED

MANUSCRIPTS
AND
CONFERENCE
PROCEEDINGS

- 6 Working Conference on Stored-Product Protection. Arthur, F. H., Kengkanpanich, R., Chayaprasert, W. and Suthisut, D (Eds.). pp: 246-255.
- 6 Boac, J. M., Casada, M. E., Lawrence, J., Plumier, B., Maier, D. E. and Ambrose, K. 2014. Modeling phosphine distribution in grain storage bunkers. In *Proceedings of the 11th International Working Conference on Stored-Product Protection*. Arthur, F. H., Kengkanpanich, R., Chayaprasert, W. and Suthisut, D (Eds.). pp: 256-263.
- 5 Plumier, B., Boac, J., Casada, M., Maier, D. E. and Ambrose, K. 2014. Modeling the efficacy of ambient aeration strategies in a grain silo under Eastern Australian weather conditions. In *Proceedings of the 11th International Working Conference on Stored-Product Protection*. Arthur, F. H., Kengkanpanich, R., Chayaprasert, W. and Suthisut, D (Eds.). pp: 542.
- 4 Subramanyam, Bh., Mahroof, R. M., Washburn, S., Reddy, P. V., Ambrose, K. and Maier, D.E. 2014. Enhancing food security in Ethiopia through reduction of postharvest losses and food wastes. In *Proceedings of the 11th International Working Conference on Stored-Product Protection*. Arthur, F. H., Kengkanpanich, R., Chayaprasert, W. and Suthisut, D (Eds.). pp: 870.
- 3 Ileleji, K.E. and Kingsly, A.R.P. 2009. Microscopic analysis of particle caking of corn distillers dried grains with solubles (DDGS). In *Proceedings of the 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management*, Aug 31 to Sept. 2, 2009, Potsdam, Germany. Brunsch, R., B. Linke, M. Geyer and U. Tietz, eds. (2009).
- 2 Goyal, R.K., Kingsly, A.R.P., Kumar, P. and Walia, H. 2007. Osmotic dehydration of aonla (*Emblica officinalis* Gaertn). *The Proceedings of the 5th Asia-Pacific Drying Conference* (Ed.: Guohua Chen). World Scientific Publishing Co., Hong Kong. pp: 1048-1057.
- 1 Thakur, A.K. and Kingsly, A.R.P. 2007. Biosensor and electronic nose: Complement of human perception towards food-quality. *Indian Food Industry*. 26(2): 50-54. (*Tech Reviews*).

BOOK/BOOK
CHAPTERS

- 4 Maier, D., McNeill, S., Hellevang, K., Ambrose, K., Ileleji, K., Jones, C. and Purschwitz, M. 2017. Grain Drying, Handling, and Storage Handbook. MWPS-13 Third Edition. MidWest Plan Service, Iowa State University, Ames, Iowa.
- 3 Alavi, S. and Ambrose, R. P. K. 2015. Particulate flow and agglomeration in food extrusion. In: *Production, Handling and Characterization of Particulate Materials*. (Ed: Merkus, H. G. & Meesters, G. M. H.). Particle Technology Series Volume 25. Springer. pp: 137-155.
- 2 Singh, D.B. and Kingsly, A.R.P. 2006. Pomegranate (*Punica granatum*). In: *Prospects and Dimensions for Utilization of Arid Foods*. (Ed: Goyal, M. & Sharma, S.K.). Yash Publishing House, Bikaner (Rajasthan), India. pp: 94-100.
- 1 Jha, S.N., Kingsly, A.R.P. and Chopra, S. 2005. Maturity assessment of mango using non destructive techniques. In: *Food and Bio Process Engineering*. Anamaya Publishers, New Delhi, India. pp: 277-280.

CONFERENCE
PRESENTATIONS
([†] Graduate
student or [‡]Post-
doctoral
RA/Visiting
scholar or
[§]Undergraduate
student supervised

- 113 Ambrose, R. P. K.*, Zhao, Y. and Niu, Z. 2019. Sensing dust concentration using smartphone App. P2SAC-Purdue Process Safety and Assurance Center Fall Meeting (December). Purdue University, West Lafayette, IN.
- 112 Ambrose, R. P. K., Pai, D. and Wassgren, C.* 2019. A course at Purdue University on particle, powder, and compact characterization. AIChE Annual Meeting, Orlando, FL.
- 111 Chen, Y., Ambrose, R. P. K., Pai, D. and Wassgren, C.* 2019. Layer-wise agglomeration of urea granules. AIChE Annual Meeting, Orlando, FL.
- 110 Akowuah, J.*, Maier, D. E., Opit, G., McNeill, S., Armstrong, P., Campbadal, C., Ambrose, R. P. K. and Obeng-Akrofi, G. 2019. Modeling the drying kinetics of dried

by Dr. Ambrose; *
Presenter)

- maize in a solar biomass hybrid dryer. *ASABE Annual International Meeting Paper No. 1901795*. St. Joseph, MI: ASABE.
- 109 Petingco, M. C.*, Casada, M. E., Maghirang, R. G., Ambrose, R. P. K. and Fasina, O.O. 2019. Effects of particle shape and size on discrete element method simulation of wheat bulk density. *ASABE Annual International Meeting Paper No. 1901636*. St. Joseph, MI: ASABE.
- 108 Zhao, Y. †* and Ambrose, R. P. K. 2019. Predicting dust cloud concentration using CFD-DPM modeling approach. *ASABE Annual International Meeting Paper No. 1900426*. St. Joseph, MI: ASABE.
- 107 Salish, K. †* and Ambrose, R. P. K. 2019. Improving the flow of cohesive powders using portable flow aids. *ASABE Annual International Meeting Paper No. 1900606*. St. Joseph, MI: ASABE.
- 106 Fang, J. †*, Zhang, Y. and Ambrose, R. P. K. 2019. Finite element modeling of the baling process of alfalfa in a round baler. *ASABE Annual International Meeting Paper No. 1900956*. St. Joseph, MI: ASABE.
- 105 Plumier, B. †*, Zhao †, Y., Casada, M., Maghirang, R. and Ambrose, R. P. K. 2019. Surface profiling of grain dusts. *ASABE Annual International Meeting Paper No. 1900668*. St. Joseph, MI: ASABE.
- 104 Plumier, B. †*, Zhao †, Y., Casada, M., Maghirang, R. and Ambrose, R. P. K. 2019. Characterizing adhesion force of dust to corn kernels. *ASABE Annual International Meeting Paper No. 1900669*. St. Joseph, MI: ASABE.
- 103 Chen, Z. †*, Ambrose, R. P.K., Veikle, E. and Wassgren, C. 2019. Determination of the physical properties of corn and wheat kernels for DEM simulations. *ASABE Annual International Meeting Paper No. 1901323*. St. Joseph, MI: ASABE.
- 102 Chen, Y. †* and Ambrose, R. P. K. 2018. Fertilizer characteristics. *ASABE Annual International Meeting Paper No. 1800070*. St. Joseph, MI: ASABE.
- 101 Chen, Z. †*, Ambrose, R. P.K. and Wassgren, C. 2018. A review of grain kernel mechanical damage, modeling, and testing procedures. *ASABE Annual International Meeting Paper No. 1800281*. St. Joseph, MI: ASABE.
- 100 Pathak, V. †* and Ambrose, R. P. K. 2018. *ASABE Annual International Meeting Paper No. 1800692*. St. Joseph, MI: ASABE.
- 99 Jange, C. †, Shetty, A. and Ambrose, R. P. K.* 2018. Assessment of powder cohesion using shear cell and Warren spring cohesion testers. *World Congress on Particle Technology*. Orlando, FL.
- 98 Salish, K. †*, Mosher, G. A. and Ambrose, R. P. K. 2018. Developing GUI to predict the contamination of GM corn in non-GM corn. NC-213 Annual Meeting. Kansas City, MO.
- 97 Pathak, V. †* and Ambrose, R. P. K. 2018. Effect of starch-based hydrogel coating on early growth of corn. NC-213 Annual Meeting. Kansas City, MO.
- 96 Jange, C. G. †* and Ambrose, R. P. K. 2017. Surface Energy and its Effect on Interparticle Interaction during Particle Flow. AIChE Annual Meeting, Minneapolis.
- 95 Jange, C. † and Ambrose, R. P. K.* 2017. Surface compositional effects on powder shear flow properties. *International Symposium – Reliable Flow of Particulate Solids V (RelPowFlo V)*, Skein, Norway.
- 94 Kwek, J. W., Siliveru, K. †, Cheng, S.,* Xu, Q. and Ambrose, R. P. K. 2017. Characterizing the surface differences between hard and soft wheat flour using zein film functionalized atomic force microscopy and Raman microscopy. *International Symposium – Reliable Flow of Particulate Solids V (RelPowFlo V)*, Skein, Norway.
- 93 Zhao, Y. †* and Ambrose, R. P. K. 2017. Characterizing grain dust dispersion and dust cloud formation. *ASABE Annual International Meeting Paper No. 1700389*. St. Joseph, MI: ASABE.

- 92 Pathak, V.[†], Shah, M. and Ambrose, R. P. K.* 2017. Adhesion of talc and graphite with seed corn. *ASABE Annual International Meeting Paper No. 1700059*. St. Joseph, MI: ASABE.
- 91 Ambrose, R. P. K.* and Stroshine, R. L. 2017. Combine harvest damage study. NC-213 Annual Meeting, Kansas City, MO.
- 90 Siliveru, K.^{†*} and Ambrose, R. P. K. 2016. Simulating the wheat flour particle separation process during sieving. *AIChE Annual Meeting*.
- 89 Jange, C.^{†*} and Ambrose, R. P. K. 2016. Surface chemical modification and its effect on dynamic flow properties. *AIChE Annual Meeting*.
- 88 McGuire, C. L.* , Ambrose, R.P.K., Maghirang, R. and Alavi, S. 2016. Particulate flow as a function of moisture and temperature and implications in food extrusion. *IFT Annual meeting*.
- 87 Chinnadurai, K.* , Ambrose, R.P.K. and Pereira, N.[‡] 2016. Moisture sorption isotherms of flavored malt powders. *IFT Annual Meeting*.
- 86 Chinnadurai, K.* , Ambrose, R.P.K. and Pereira, N.[‡] 2016. Influence of anticaking agents on the physical and flow properties of flavored malt powders. *IFT Annual Meeting*.
- 85 Sanghi, A.^{†*} and Ambrose, R.P.K. 2016. Modeling high capacity solar dryers for drying maize in Ghana. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162458323*.
- 84 Siliveru, K.^{†*} and Ambrose, R.P.K. 2016. Bulk cohesion of wheat flour. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162455263*.
- 83 Ambrose, R.P.K., Boac, J.[‡], Maier, D., and Sanghi, A.^{†*} 2016. Modeling soybean flow in a mixed flow grain dryer. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162432038*.
- 82 Mosher, G.* , Ambrose, R. P. K., Ramaswamy, S. and Maier, D. 2016. Grain dust explosions: Construction of a root cause analysis for safety training. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162461548*.
- 81 Siliveru, K.^{†*}, Gurgain, Y., Vadlani, P. and Ambrose, R. P. K. 2016. Efficient utilization of energy biomass in bio refineries: physical and bulk flow characterization. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162455602*.
- 80 Owureku-Asare, M.^{†*}, Sanghi, A.[†] and Ambrose, R.P.K. 2016. The effects of pre-treatments on drying characteristics of solar dried tomatoes. *ASABE Annual Meeting, Orlando, Florida. Paper No. 162460695*.
- 79 Siliveru, K.^{†*} and Ambrose, R. P. K. 2016. Effect of particle cohesion on the sifting behavior of wheat flour. *AACC International Milling and Baking Division Spring Technical Conference. 20-22, April, 2016, Portland, OR*.
- 78 Ambrose, R. P. K.* , Casada, M. E. and Simsek, S. 2016. Intrinsic characteristics of modified DDGS and development of effective handling strategies. *NC-213 Annual Meeting, Austin TX, March 1-2*.
- 77 Siliveru, K.^{†*} and Ambrose, R. P. K. 2016. Effect of particle characteristics on wheat flour cohesion. *NC-213 Annual Meeting. Austin TX, March 1-2*.
- 76 Sanghi, A.^{†*} and Ambrose, R. P. K. 2016. Computational fluid dynamics (CFD) simulation of solar dryers. *NC-213 Annual Meeting. Austin TX, March 1-2*.
- 75 Zhao, Y.^{†*} and Ambrose, R. P. K. 2016. Effect of different tempering methods on sorghum milling and flour properties. *NC-213 Annual Meeting. Austin TX, March 1-2*.
- 74 McGuire, C. L.* , Ambrose, R.P.K. and Alavi, S. 2015. Particulate flow measurements and implications in food extrusion. *AACC International Annual Meeting, Minneapolis, MN*.
- 73 Zhao, Y. ^{†*} and Ambrose, R. P. K. 2015. Effect of different tempering method on sorghum kernel physical and milling characteristics. *AACC International Annual Meeting, Minneapolis, MN*.

- 72 Siliveru, K.^{†*} and Ambrose, R. P. K. 2015. Effect of particle size on shear flow properties of wheat flour. AACC International Annual Meeting, Minneapolis, MN. *Awarded the AACCI Texture Technologies Best Paper.*
- 71 Bhadra, R.^{‡*} and Ambrose, R. P. K. 2015. Carbohydrate and fat staining and imaging of low-oil DDGS particles. ASABE Annual Meeting, New Orleans, Louisiana. Paper no. 152192091.
- 70 Siliveru, K.^{†*}, Bhadra, R.[‡], Ambrose, R.P.K. and Casada, M.E. 2015. Hopper flow characteristics of modified distillers dried grains with solubles. ASABE Annual Meeting, New Orleans, Louisiana. Paper no. 152189631.
- 69 Boac, J.M.[‡], Casada, M.E.* , Lawrence, J., Plumier, B., Maier, D. and Ambrose, R.P.K. 2015. Modeling phosphine fumigant dispersal in 2D and 3D horizontal bulk grain storage systems. ASABE Annual Meeting, New Orleans, Louisiana. Paper no. 152189124.
- 68 Chinnadurai, K., Ambrose, R.P.K.* and Muthukumarappan, K. 2015. Physical, chemical, and flow properties of different millets and their flours. ASABE Annual Meeting, New Orleans, Louisiana. Paper No. 152189759.
- 67 Siliveru, K.^{†*}, Bhadra, R.[‡], Ambrose, R. P. K., Casada, M.E., Whitney, K. and Simsek, S. 2015. Intrinsic characteristics of modified DDGS and effective handling strategies: Modeling studies. NC-213 Annual Meeting, Kansas City, Missouri, February 18-19.
- 66 Whitney, K., Siliveru, K. ^{†*}, Bhadra, R.[‡], Ambrose, R.P.K., Casada, M.E. and Simsek, S. 2015. Intrinsic characteristics of modified DDGS and effective handling strategies: Chemical properties studies. NC-213 Annual Meeting, Kansas City, Missouri, February 18-19.
- 65 Siliveru, K. ^{†*}, Casada, M.E. and Ambrose, R.P.K. 2015. Three dimensional finite volume heat transfer model for cooling of M-DDGS pile. NC-213 Annual Meeting, Kansas City, Missouri, February 18-19 (Poster).
- 64 Boac, J. ^{‡*}, Plumier, B., Casada, M.E., Maier, D., and Ambrose, R.P.K. 2015. Modeling phosphine fumigant distribution in grain storage bunkers. NC-213 Annual Meeting, Kansas City, Missouri, February 18-19 (Poster).
- 63 Ileeji, K. E.* , Ambrose, K., Li, Y. and Doane, P. H. 2015. Experimental investigations towards understanding important parameters in wet drum granulation of biomass. 7th International Granulation Workshop, The University of Sheffield, UK.
- 62 Subramanyam, Bh.* , Mahroof, R. M., Washburn, S., Reddy, P. V., Ambrose, K. and Maier, D. 2014. Enhancing food security in Ethiopia through reduction of postharvest losses and food wastes. 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand.
- 61 Bian, Q[†], Ambrose, K. and Subramanyam, Bh.* 2014. Effect of lesser grain borer infestations on the bulk wheat flowability. 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand.
- 60 Boac, J.[‡], Plumier, B., Casada, M., Maier, D.* and Ambrose, K. 2014. Modeling phosphine distribution in grain storage bunkers. 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand.
- 59 Plumier, B., Boac, J.[‡], Casada, M., Maier, D.* and Ambrose, K. 2014. Modeling the efficacy of ambient aeration strategies in a grain silo under eastern Australian weather conditions. 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand.
- 58 Manikantan, M.R.^{‡*}, Mathew, A.C., Ambrose, K. and Alavi, S. 2014. Moisture dependent flow specific physical properties of coconut milk residue flour and its incorporation on operative rheological properties of cereal flours. National Seminar on Sustainability of Coconut, Arecanut and Cocoa Farming – Technological Advances and Way Forward. Central Plantation Crops Research Institute, Kasaragod, Kerala, India.

- 57 Scheff, D.*, Frederick, J., VanBibber, C., Bingham, A., Dogan, H. and Ambrose, K. 2014. The effect of temperature induced stress cracks on the process quality of yellow dent corn. AACC International Annual Meeting, Providence, RI. (*Awarded the AACCI Corn Refiners Association Best Paper Award – Paper from class project in the course taught by Dr. Ambrose*).
- 56 Siliveru, K.[†], Wang, K. J., Lau, G., Pai, D. and Ambrose, K. * 2014. Understanding the surface properties of flour from different wheat classes and their relation to flow behavior. AACC International Annual Meeting, Providence, RI.
- 55 Boac, J.^{‡*}, Lawrence, J., Casada, M., Ambrose, K. and Maier, D. 2014. Modeling fumigant distribution in bulk grain storages. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 141894490*. St. Joseph, MI: ASABE.
- 54 Bhadra, R.[‡], Ambrose, K. Casada, M. and Siliveru, K. ^{†*} 2014. Comparison of flow and physical properties of modified DDGS with regular DDGS under varying storage conditions. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 141899398*. St. Joseph, MI: ASABE.
- 53 Patwa, A.^{†*} and Ambrose, K. 2014. Discrete element method modeling of first/second break wheat milling process using a multi-sphere approach. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 141893219*. St. Joseph, MI: ASABE.
- 52 Siliveru, K.^{†*} and Ambrose, K. 2014. Surface characteristics of wheat flour particles. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 141892986*. St. Joseph, MI: ASABE.
- 51 Manikantan, M.R.[‡], Joseph, M., Patwa, A. ^{†*}, Alavi, S. and Ambrose, K. 2014. Effect of coconut flours incorporation on softening and flow point temperature of cereal flours. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 141911256*. St. Joseph, MI: ASABE.
- 50 Patwa, A.[†] and Ambrose, K.* 2014. DEM modeling of wheat milling using single sphere approach. *World Congress on Particle Technology (WCPT-7)*, Beijing, China.
- 49 Bian, Q.^{†*} and Ambrose, K. 2014. Effect of lesser grain borer infested kernels in flow properties of bulk wheat. *World Congress on Particle Technology (WCPT-7)*, Beijing, China.
- 48 Siliveru, K.[†], Casada, M. and Ambrose, K. 2014. Three dimensional heat transfer model for cooling M-DDGS. 18th Distillers Grains Symposium, Dallas, TX, 14-15 May 2014 (poster).
- 47 Subramanyam, Bh.*, Ambrose, K., Maier, D. and Ren, Y. 2014. Evaluating chlorine dioxide and ozone for controlling phosphine-resistant insects in on-farm and commercial bulk storages. CRC National Plant Biosecurity Science Exchange, Queensland, Australia.
- 46 Plumier, B.*, Maier, D., Boac, J.[‡], Casada, M., Ambrose, K. 2014. Modeling fumigant distribution in bulk storages to improve efficacy against insects. Plant Biosecurity CRC Science Exchange, Queensland, Australia.
- 45 Buyanovsky, D^x. and Ambrose, K. 2014. Properties of sorghum and wheat flour mix. K-State Developing Scholars Symposium (Poster).
- 44 Ambrose, K.*, Casada, M., Simsek, S., Bhadra, R.[‡] and Siliveru, K.[†]. 2014. Intrinsic characteristics of modified DDGS. *NC-213 Annual Meeting*, Omaha, Neb.
- 43 Boac, J.^{‡*}, Maier, D., Casada, M. and Ambrose, K. 2014. Modeling fumigant distribution in bulk storages to improve efficacy against insects. *NC-213 Annual Meeting*, Omaha, Neb.
- 42 Karunanithi, C., Ambrose, K. and Muthukumarappan, K*. 2014. Physical properties of cranberry seeds. *1st International Conference on Food Properties*. January 2014, Kuala Lumpur, Malaysia.

- 41 Ambrose, K., Perumal, S^x. and Maier, D.* 2013. Development of a wheat milling system simulation. *American Association of Cereal Chemists International Annual Meeting*. Albuquerque, NM: AACCI.
- 40 Patwa, A.^{†*} and Ambrose, K. 2013. Wheat mill stream properties for discrete element method modeling. *American Society of Agricultural and Biological Engineering (ASABE) Annual International Meeting Paper No. 1587727*. St. Joseph, MI: ASABE.
- 39 Bian, Q.^{†*} and Ambrose, K. 2013. Flow Behavior of Wheat with Impurities. *American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting Paper No.:1585729*. St. Joseph, MI: ASABE.
- 38 Li, Y., Ileleji, K.E., Ambrose, K.* , and Doane, P.H. 2013. Drum agglomeration of corn stover and corn coproducts from bioprocessing. *American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting Paper No.:131620777*. St. Joseph, MI: ASABE.
- 37 Patwa, A.^{†*} and Ambrose, K. 2013. Wheat mill stream properties for discrete element method modeling. K-State Research Forum, Kansas State University. Manhattan, KS. 27th March, 2013.
- 36 Cook, S.^{x*} and Ambrose, K. 2013. Flow characterization of powders of tuber crops. Gamma Sigma Delta – College of Agriculture Undergraduate Research Showcase, Kansas State University, 26th April, 2013.
- 35 Kingsly, A.R.P.* and Ileleji, K.E. 2010. Modeling the heat and moisture transfer in corn distillers dried grains with solubles (DDGS). *American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting Paper No.: 1009196*. St.Joseph, MI.: ASABE.
- 34 Kingsly, A.R.P.* and Ileleji, K.E. 2010. Glass transition behavior of corn distillers dried grains with soluble (DDGS). *The World Congress on Particle Technology (WCPT6)*, Nuremberg, Germany.
- 33 Ileleji, K.E.*, Clementson, C.L. and Kingsly, A.R.P. 2010. Research and solutions for quality management and handling of distillers dried grains with solubles (DDGS). *Paper Presented at the GEAPS Exchange 2010, February 20-23, Wichita, Kan.*
- 32 Kingsly, A.R.P.* and Ileleji, K.E. 2009. Influence of relative humidity and temperature on corn dried distillers grains with solubles (DDGS) flowability. *American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting Paper No.: 095799*. St.Joseph, MI.: ASABE.
- 31 Kingsly, A.R.P.* and Ileleji, K.E. 2009. Moisture solids interactions in corn distillers dried grains with solubles (DDGS). *Invited Poster Session of International Fine Particle Research Institute (IFPRI) Meeting*, Ann Arbor, MI, USA.
- 30 Ileleji, K.E.* and Kingsly, A.R.P. 2009. Evolution of particle caking in corn distillers dried grains with solubles (DDGS). *Invited Poster Session of International Fine Particle Research Institute (IFPRI) Meeting*, Ann Arbor, MI, USA.
- 29 Ileleji, K.E.*, Kingsly, A.R.P., Clementson, C.L. and Probst, K. 2009. Causes of physical and chemical variability in corn distillers dried grains with solubles (DDGS). *100th AOCS Annual Meeting and Expo.*, Orlando, Florida.
- 28 Probst, K.*, Kingsly, A.R.P. and Ileleji, K.E. 2009. The effect of moisture content on the grinding performance of corn and corn cobs. *Second Generation Biofuels Symposium*, Purdue University, West Lafayette, IN, USA.
- 27 Kingsly, A.R.P.* and Ileleji, K.E. 2008. Development of predictive models for the quality and handling characteristics of dried distillers grains with solubles (DDGS). *International Grain Quality and Technology Congress*, Chicago, IL, USA.
- 26 Kingsly, A.R.P.* and K.E.Ileleji. 2008. Sorption characteristics of corn dried distillers grains with solubles (DDGS) and its prediction from chemical composition. Presented at the 4th LSAMP Indiana & Midwest Crossroads AGEP, West Lafayette, IN, USA.

- 25 Kingsly, A.R.P.* and Ileleji, K.E. 2008. Caking behavior of corn dried distillers grains with solubles (DDGS). Poster presented at the *Integrated Corn Ethanol Co-Products Conference*, West Lafayette, IN, USA.
- 24 Kingsly, A.R.P.* and Ileleji, K.E. 2008. Moisture sorption isotherms of dried distillers grain with solubles (DDGS) produced using four process conditions. *American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting Paper No.:* 083723. St.Joseph, MI.: ASABE.
- 23 Goyal, R.K.*, Kingsly, A.R.P., Kumar, P. and Walia, H. 2008. Foam mat drying of aonla pulp. *42nd Annual Convention and Symposium of Indian Society of Agricultural Engineers*, CIAE, Bhopal, India.
- 22 Goyal, R.K.*, Kingsly, A.R.P., Kumar, P. and Walia, H. 2008. Osmotic dehydration of aonla. *42nd Annual Convention and Symposium of Indian Society of Agricultural Engineers*, CIAE, Bhopal, India.
- 21 Singh, D.B.* , Kingsly, A.R.P., Meena, H.R. and Gupta. R.K. 2008. Screening of *ber* cultivars for processing and value added products. *National Seminar on Opportunities and Challenges for Arid Horticulture for Nutrition and Livelihood*, CIAH, Bikaner, Rajasthan, India.
- 20 Kingsly, A.R.P.* , Balasubramaniam, V.M. and Rastogi, N.K. 2007. High pressure blanching of peaches. *National Conference on Food & Nutrition Security: Food & Biotechnologies Interventions*, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India.
- 19 Kingsly, A.R.P.* and Singh, D.B. 2006. Effect of drying air temperature on drying behavior and properties of pomegranate arils. *40th Annual Convention and Symposium of Indian Society of Agricultural Engineers*, AEC&RI, TNAU, Coimbatore, India.
- 18 Goyal, R.K., Kingsly, A.R.P.* and Wanjari, O.D. 2006. Need for automation in aonla processing industry. *19th National Convention of Agricultural Engineers & National Seminar on Role of Information Technology in Hi-Tech Agriculture and Horticulture*, The Institution of Engineers (India), Karnataka, Bangalore, India.
- 17 Singh, D.B.* and Kingsly, A.R.P. 2007. Effect of convective drying on quality of anardana. *Second Indian Horticulture Congress-2007*, ICAR complex for NE Region, Meghalaya, India.
- 16 Garg, V.K.* , Kingsly, A.R.P., Singh, D.B. and Kumar, S. 2007. Development of lotus seed decorticator. *National Conference on Food & Nutrition Security: Food & Biotechnologies Interventions*, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India.
- 15 Singh, D.B.* and Kingsly, A.R.P. 2006. Efficiency of boron application on control of fruit cracking and improvement in yield and quality of pomegranate fruits. *National Symposium on Improving Input Use Efficiency in Horticulture*, Indian Institute of Horticultural Research, Bangalore, India.
- 14 Jha, S.N.* , Kingsly, A.R.P. and Chopra, S. 2006. Prediction of maturity using analysis of color of mango in tree. *40th Annual Convention and Symposium of Indian Society of Agricultural Engineers*, AEC&RI, TNAU, Coimbatore, India.
- 13 Goyal, R.K.* , Kingsly, A.R.P. and Manikantan, M.R. 2006. Dehydration of fruits in a tunnel dryer. *40th Annual Convention and Symposium of Indian Society of Agricultural Engineers*, AEC&RI, TNAU, Coimbatore, India.
- 12 Kingsly, A.R.P.* and Singh, D.B. 2005. Physico-chemical characters of quality of different *ber* cultivars for processing. *National Seminar on Food Quality and Safety Standards of Agricultural Raw and Processed Produce*, NASC Complex, Pusa, New Delhi, India.
- 11 Singh, D.B.* and Kingsly, A.R.P. 2005. Effect of packaging with HDPE film on quality of anardana and its powder. *International Conference on Plasticulture and Precision Farming*, New Delhi, India.

- 10 Singh, D.B.* and Kingsly, A.R.P. 2005. Quality standards for export and processing of pomegranate. *National Seminar on Food Quality and Safety Standards of Agricultural Raw and Processed Produce*, NASC Complex, Pusa, New Delhi, India.
- 9 Jha, S.N.*, Chopra, S. and Kingsly, A.R.P. 2005. Visual spectroscopy for determination of internal quality of mango. *39th Annual Convention of Indian Society of Agricultural Engineers*, Acharya N.G. Ranga Agricultural University, Hyderabad, India.
- 8 Singh, D.B.*, Kingsly, A.R.P. and Meena, H.R. 2005. Separation of pomegranate arils for quality *anardana* as affected by various thermal treatments. *National Seminar on Commercialization of Horticulture in Non-traditional Areas*, Central Institute for Arid Horticulture, Bikaner, Rajasthan, India.
- 7 Jha, S.N., Kingsly, A.R.P.* and Chopra, S. 2004. Maturity assessment of mango using non destructive techniques. *International Conference on Emerging Technologies in Agricultural and Food Engineering*, IIT, Kharagpur, India.
- 6 Singh, D.B.* , Kingsly, A.R.P., Jain, R.K. and Meena, H.R. 2004. Pomegranate rind powder: preparation, nutritional and mineral composition. *First Indian Horticulture Congress*, Pusa, New Delhi, India.
- 5 Kingsly, A.R.P.* , Meena, H.R. and Jain, R.K. 2004. Firmness of *ber* fruits during storage. *38th Annual Convention of Indian Society of Agricultural Engineers (ISAE)*, College of Agricultural Engineering & Technology, Dr. BSKKV, Dapoli, Maharashtra, India.
- 4 Kingsly, A.R.P., Kamaraj, S. and Kamaraj, A*. 2000. Biogas production from agricultural wastes. *34th Annual Convention of Indian Society of Agricultural Engineers*, CCSHAU, Hisar, Haryana, India.
- 3 Vennila, P.* , Manimegalai, R. and Kingsly, A.R.P. 2000. Studies on microbiological properties of the osmotically dehydrated coconut. *14th Indian Convention of Food Scientists & Technologists*, CFTRI, Mysore, India.
- 2 Vennila, P.* , Manimegalai, R. and Kingsly, A.R.P. 2000. Effect of packaging material on the quality of papaya fruit bar. *14th Indian Convention of Food Scientists & Technologists*, CFTRI, Mysore, India.
- 1 Kailappan, R.* , Kingsly, A.R.P., Pandiyarajan, T. and Natarajan, S. 1998. Performance evaluation of a brinjal seed extractor. *13th National Convention of Agricultural Engineers on Role of Agricultural Engineers in Nation Building Activities in the Twenty First Century*, TNAU, Coimbatore, India.
- TECHNICAL BULLETINS
- 2 Singh, D.B., Kingsly, A.R.P., Gupta, R.K. and Patil, R.T. 2007. Value added products from pomegranate (*Punica granatum L.*). CIPHET Tech. Bull., CIPHET, Abohar, India.
- 1 Garg, V.K., Kingsly, A.R.P., Goyal, R.K. and Kumar, S. 2006. Castor depodder/decorticator. CIPHET Tech. Bull. No. CIPHET/Pub./14/2006, CIPHET, Abohar, India.
- PUBLICATIONS IN TRADE MAGAZINES
- 33 Ambrose, R. P. K. 2020. Grain dust explosions: an omnipresent hazard. *ASABE Resource Magazine*. November/December. 7-9.
- 32 Siliveru, K. and Ambrose, R. P. K. 2017. Flour particle properties and sieving. *Milling Journal*. Second Quarter. 43-45.
- 31 Ambrose, K. 2015. Using grounding to eliminate static electricity discharge. *Powder and Bulk Engineering News*. April.
- 30 Ambrose, K. and Sanghi, A. 2015. Grain dust explosion incidents, 2006-2014. *World Grain*. March.
- 29 Ambrose, K. 2015. Sifting and sifting systems in milling. *Miller*. February: 36-41.
- 28 Ambrose, K. 2014. How to minimize ignition sources in grain handling and processing. *Powder and Bulk Engineering News*. December.

- 27 Bhadra, R. and Ambrose, K. 2014. Handling issues in modified DDGS. *World Grain*. April 2014: 24-27.
- 26 Kingsly, A.R.P. and Ileleji, K.E. 2011. The challenges of DDGS caking in transit. *Feed & Grain*. January: 30-34.
- 25 Singh, D.B. and Kingsly, A.R.P. 2007. *Anardana – A Promising Spice*. *Spice India*. 20 (3): 21-22.
- 24 Rajbir Singh and Kingsly, A.R.P. 2006. Improved Agriculture – way forward for food security and rural development. *Intensive Agriculture*. 44(1): 18-21.
- 23 Kingsly, A.R.P., Pradeep Kumar, Meena, H.R and Jain, R.K. 2006. Sorting, grading and cooling of fruits and vegetables. *Beverage and Food World*, 33(4): 42-44.
- 22 Singh, D.B., Kingsly, A.R.P. and Jain, R.K. 2006. Controlling fruit cracking in pomegranate. *Indian Horticulture*. 51(1): 14, 32.
- 21 Kingsly, A.R.P., Meena, H.R. and Jain, R.K. 2004. Preservation of vegetables. *Agrobios Newsletter*. 3(3): 49-50.
- 20 Meena, H.R., Kingsly, A.R.P., Jain, R.K. and Meena, K.K. 2004. Value addition of *ber*. *Intensive Agriculture*. 42(5-6): 15-17.
- 19 Meena, H.R., Kingsly, A.R.P. and Jain, R.K. 2003. Pomegranate. *Agro India*. 7(4): 20.
- 18 Kingsly, A.R.P. and Muthamilselvan, M. 2001. Food Products from mango (In Tamil). *Nilavalam*. 33(10): 27.
- 17 Kingsly, A.R.P. and Muthamilselvan, M. 2001. Simple techniques for preservation of mango (In Tamil). *Sakthi Sugars News Letter*. 36(5): 12-13.
- 16 Vennila, P. and Kingsly, A.R.P. 2001. Studies on the preparation and storage behavior of sapota-papaya fruit bar. *Beverage and Food World*. 28(12): 39-41.
- 15 Vennila, P., Sampathrajan, A. and Kingsly, A.R.P. 2001. TNAU noon meal *chulha* for schools. *Kisan World*. 28(3): 34.
- 14 Vennila, P. and Kingsly, A.R.P. 2001. Mango. *Agro India*. 5 (2&3): 38-39.
- 13 Vennila, P., Emerald, P.M.E. and Kingsly, A.R.P. 2000. Cindrella crop soya (In Tamil). *Kalaikathir*. 53(1): 47-51.
- 12 Emerald, F.M.E., Vennila, P. and Kingsly, A.R.P. 2000. Value added products from mango. *Kisan World*. 27(2): 59-60.
- 11 Vennila, P. and Kingsly, A.R.P. 2000. Tamarind concentrate. *Spice India*. 13(9): 6.
- 10 Vennila, P. and Kingsly, A.R.P. 2000. Tamarind concentrate. *Agri Gold Swarna Sedyam*. 3(10): 56.
- 9 Vennila, P., Emerald, F.M.E. and Kingsly, A.R.P. 2000. Nutritious products from *amla*. *Agri Gold Swarna Sedyam*. 3(7): 46.
- 8 Vennila, P. and Kingsly, A.R.P. 1999. Biocolour from red tamarind. *Spice India*. 12(7): 19.
- 7 Amuthan, G. and Kingsly, A.R.P. 1999. Industrial processing of banana. *Agro India*. 3(3): 25.
- 6 Kingsly, A.R.P. and Kamaraj, S. 1999. Biogas production from agricultural wastes. *Agro India*. 3(9): 11.
- 5 Emerald, F.M.E., Vennila, P. and Kingsly, A.R.P. 1999. Processed jack products. *Agro India*. 3(8): 14.
- 4 Vennila, P., Emerald, F.M.E. and Kingsly, A.R.P. 1999. Techniques to find food adulteration (In Tamil). *Nilavalam*. 32(6): 21-22.
- 3 Vennila, P. and Kingsly, A.R.P. 1999. Preserve from *amla* fruit. *Agri Gold Swarna Sedyam*. 2(10): 36.
- 2 Kailappan, R., Kingsly, A.R.P. and Varadharaju, N. 1998. Brinjal seed extractor. *Invention Intelligence*. 33(6): 258-259.
- 1 Kailappan, R. Kingsly, A.R.P. and Thangavel, K. 1998. Brinjal seed extractor. *The Hindu*. 19, November: 28

EXTENSION/ OUTREACH	2013 - present	Workshops and training programs on prevention of grain dust explosions. Trained more than 1100 industry workers and professionals.
	2018	AACCI Rheology Division short course on rheology and texture of cereal foods.
	2012 - 2015	Lectures on bulk materials handling at various International Grains Program (KSU) short courses
	2013	Short course on bulk solids handling, storage and flow
	2007	Organized a National Workshop on “Application of High Pressure in Food Processing” at CIPHET, Abohar, Punjab, India. Invited Dr.V.M.Balasubramaniam, Associate Professor, Food, Agricultural and Biological Engineering, The Ohio State University, USA to give the key note address.
	2004 - 2007	Taught and trained small entrepreneurs from Punjab State of India on food processing and product development during Entrepreneurship Development Programs.
	2004 - 2007	Delivered expert lectures during training Government Agricultural Officers from the States of Punjab, Haryana, Uttaranchal, Uttar Pradesh and Himachal Pradesh on postharvest management of fruits.
	1998 - 2001	Trained rural youth and women in manufacture and use of smokeless energy efficient wood stoves by live demonstrations and practical trainings. Conducted more than 200 demonstrations/training programs across the state of Tamil Nadu, India.
	1998 - 2001	Developed extension materials such as leaflets on smokeless energy efficient stoves, biogas production and popular articles in Indian trade magazines.
CONTINUING EDUCATION/ PROFESSIONAL TRAINING	2013	Overview of Particulate Technology, The Wolfson Bulk Solids Center, University of Greenwich, Chatham Maritime, UK, 1-2 October.
	2012	Mill Processes –II, IAOM - Kansas State University Resident Milling Course Program at Kansas State University, Manhattan, KS, 11-15 June.
	2012	Introduction to Flour Milling, IAOM – Kansas State University Resident Milling Course Program at Kansas State University, Manhattan, KS, 23-27 January.
	2009	Preparing Future Professionals, Fall 2009, Purdue University, IN, USA.
	2007	NIR Calibration Software (CalStar and TransStar) Training at Chicago, IL conducted by Unity Scientific Inc., CT, USA, 30 to 31 st October.
	2006	High Pressure Sterilization Processes at The Ohio State University, Columbus, OH, USA, 2 nd October to 3 rd November.
	2003	Design of Storage Structures and Quality Assessment Techniques for Agricultural Produce at CIPHET, Ludhiana, Punjab, India, 21 st May to 10 th June.
	2002	Foundation course on Agricultural Research Service at National Academy of Agricultural Research Management, Hyderabad, India, August to November,
SERVICE	2020 - present	Faculty affairs committee, College of Engineering
	2019 - present	Honors Committee, College of Agriculture
	2017 - present	Academic programs committee, ABE department
	2017 - present	ABET Committee, ABE department
	2016 - 2019	Engineering Advisory Council, College of Engineering
	2017 - 2019	CP3 faculty and lab manager search committees
	2014 - 2015	GSI department seminar organizing committee

	2014	KSU – Grain Science and Industry department head search committee
	2013 - 2015	KSU – FDA and USRG proposal review committee
	2013 - 2015	KSU – College of Agriculture Diversity committee
	2013 - 2015	Research and Planning committee, KSU – Bulk solids innovation center, Salina, KS
	2013 - 2015	Faculty advisor, Grain science graduate student organization
	2013	KSU, IGP – Distance education coordinator search committee
	2012 - 2015	Graduate program committee, Grain Science and Industry department
	2012 - 2017	Station Representative of Kansas State University AES (2012- 2015) and Secretary/Vice-Chair/Chair (Feb 2013 – Feb 2016) of NC-213 Multi-State project on ‘Marketing and Delivery of Quality Grains and Bioprocess Co-products’.
PROFESSIONAL SERVICE	2020	Invited keynote panelist, The Powder Show Digital Flow .
	2019 - present	Associate Editor, ASABE Journals (Processing Systems).
	2019 - present	Program chair, Crop handling, drying & storage (PRS-702) division of ASABE.
	2018	Scientific Advisory Committee Member, RelPowFlo Conference, Norway.
	2015	Grant proposal reviewer for Sultan Qaboos University, Oman.
	2014 - 2020	Invited panelist, USDA – NIFA.
	2013 - 2015	Invited panelist, NSF .
	2013 - 2016	Secretary/Vice-Chair/Chair, Food Process Engineering (PRS-703) division of ASABE.
	2013 - 2016	Co-Chair, Rheology division, American Association of Cereal Chemists.
	2013 - 2014	Abstract reviewer, American Association of Cereal Chemists annual convention.
	2014 - 2019	External examiner for a Ph.D. dissertation from SRM University, Chennai, India; Annamalai University, India; Mother Teresa Women’s University, India; NIT, Rourkela, India; University of Faisalabad, Pakistan.
	2014 - present	Adjunct Professor, Tamil Nadu Agricultural University, Coimbatore, India
MANUSCRIPT REVIEWER	2007 - present	Advanced Powder Technology, Agricultural Engineering International: CIGR Journal, Applied Engineering in Agriculture, Cereal Chemistry, Chemical Industry & Chemical Engineering Quarterly, Critical Reviews in Food Science and Technology, Engineering Computations, Food and Bio Process Technology, International Journal of Agricultural and Biological Engineering, International Journal of Dairy Technology, International Journal of Food Properties, International Journal of Food Science and Technology, Journal of Agricultural Engineering, ISAE, Journal of Cereal Science, Journal of Food Engineering, Journal of Food Process Engineering, Journal of Food Science and Technology, Journal of Stored Product Research, Journal of the Science of Food and Agriculture, Particle and Particle Systems Characterization, Powder Technology, Postharvest Biology and Technology, Spanish Journal of Agricultural Research, Transactions of the ASABE