

LINGJUAN WANG LI
Department of Biological and Agricultural Engineering
North Carolina State University
186 Weaver Labs, Campus Box 7625
Raleigh, NC 27695-7625
Phone: (919) 515-6762 (office); (919) 656-8570 (cell); Email: Lwang5@ncsu.edu

Education:

Doctor of Philosophy, May 2004. Biological & Agricultural Engineering, Texas A&M University.
Master of Science, December 2000. Agricultural Engineering, Texas A&M University.
Bachelor of Engineering, July 1985. Cotton Engineering. Anhui University of Finance & Trade, China.

Professional Experience:

Professor (2016-Present); **Associate Department Head** (August 2022-Present): Department of Biological and Agricultural Engineering, North Carolina State University
Associate Professor (2011-2015): Department of Biological and Agricultural Engineering, North Carolina State University
Assistant Professor (2005-2010): Department of Biological and Agricultural Engineering, North Carolina State University
Department of Biological and Agricultural Engineering, North Carolina State University
Postdoctoral Research Associate (June-December 2004); **Graduate Research/Teaching Assistant** (1999-2004); **Visiting Scholar** (1998-1999)
Department of Biological and Agricultural Engineering, Texas A&M University
Certified Research & Design Engineer (1993-1998); **Assistant Engineer** (1985-1992)
All-China federation of supply and marketing cooperatives Zhengzhou Cotton & Jute Engineering Technology Design and Research Institute, Zhengzhou city, P.R. China

Professional Certifications:

Engineer-In-Training. Certificate No. 33178, Texas Board of Professional Engineers, 2003.
Professional Engineer in Cotton Processing. Certificate No. ZZ181993, Cotton Engineering Professional Evaluation Board, Ministry of Commerce, China, 1993.

Awards & Honors:

1. 2021-2023; 2013-2017 Appointment by the U.S. Secretary of Agriculture to the USDA Agricultural Air Quality Task Force (AAQTF)
2. 2020 BAE Outstanding Research Award, North Carolina State University
3. 2019 Award for Excellence in Multistate Research, presented to the technical committee of NE1442. June 3, 2019 by NERA Chair Jody Jellison and NERA Executive Director Richard C. Rhodes III
4. 2017-Present: Board of Directors of International Research Center for Animal Environment and Welfare (IRCAEW)
5. 2015-Present: University Faculty Scholar
6. 2015 Robert W. Bottcher Promising Researcher Award
7. 2010 NSF-CAREER award.
8. 2010 Merit Award, International Commission of Agricultural and Biosystems Engineering (CIGR)
9. 2007 Faculty Research and Professional Development Award. North Carolina State University.
10. 2004 ASAE Graduate Student Research Award, 2nd place in Ph.D. Category, American Society of Agricultural Engineers (ASAE).
11. 2004 Peary Wilemon-National Cotton Ginners' Scholarship, National Cotton Ginners Association. One of 4 chosen national wide for excellence at university level.
12. 2003 Graduate Scholarly Achievement Award, Association of Overseas Chinese Agricultural, Biological and Food Engineers (AOCABFE).
13. 2003 Graduate Student Paper Competition Award – 3rd Place, Association of Overseas Chinese Agricultural, Biological and Food Engineers (AOCABFE).
14. 2001 Outstanding International Graduate Award, Department of Agricultural Engineering, Texas A&M University.

Affiliations:

1. Association of Environmental Engineering & Science Professors (AEESP)
2. Board of Directors of International Research Center for Animal Environment and Welfare (IRCAEW)
3. Member of USDA-NIFA Multi-State Research Project NE1942 “Enhancing Poultry Production Systems through Emerging Technologies and Husbandry Practices”
4. Member of USDA-NIFA Multi-State Research Project NCERA101 “Controlled Environment Technology and Use”
5. Member of USDA-NIFA Multi-State Research Project NC1211 “Precision Management of Animals for Improved Care, Health and Welfare of Livestock and Poultry”
6. American Society of Agricultural and Biological Engineers (ASABE)
 - a. ASABE / PAFS-50 Environmental Air Quality Committee
 - b. ASABE / PAFS-40 Facilities & Systems
 - c. ASABE / PAFS-405 Poultry Housing Committee (Chair 2012-2013)
 - d. ASABE / PAFS-413 Animal Welfare & Care (Secretary 2013-2014)
 - e. ASABE / MS-23/7/3 Cotton Engineering Committee
 - f. ASABE / PAFS-04 Paper Award Committee (Chair 2010-2011, 2020-2021)
7. Air and Waste Management Association (AWMA) (2005-2016)
8. International Commission of Agricultural Engineering (CIGR)
9. Association of Overseas Chinese Agricultural, Biological and Food Engineers (AOCABFE)

Services:

1. Proceeding Committee of the 2nd US Precision Livestock Farming Conference (USPLF2023)
2. Member of Pork Air Science Policy Advisory Committee (PASPAC) of National Pork Producers Council (NPPC)
3. Member of the USDA Agricultural Air Quality Task force (AAQTF) (2013-2017), 2021-2023
4. Co-Chairs of Animal Environment and Welfare Proceedings of International Symposium 2021, 2019.
5. Associate editor of Transaction of the ASABE
6. Division editor of International Journal of Agricultural and Biological Engineering
7. Editor-in-Chief (2005-2008): Agricultural Engineering International: the CIGR Ejournal.
8. Chair (2007-2008), Vice-Chair (2006-2007), Secretary (2005-2006) of USDA-NIFA S1025 Multi-State Air Quality Research Committee: “Systems for Controlling Air Pollutant Emissions and Indoor Environments of Poultry, Swine, and Dairy Facilities”.
9. President (2009-2010), Vice-president (2006-2007), executive board member of Association of Overseas Chinese Agricultural, Biological and Food Engineers (AOCABFE)
10. Grant review panelist for USDA-AFRI, NSF-CBET, USDA-SBIR; EPA-SBIR; and various state and institutional programs
11. Peer Reviewer for (1) Journal of Atmospheric Environment; (2) Journal of Air and Waste Management Association; (3) Journal of Hazardous Materials; (4) Journal of Chemical Engineering Science; (5) Transactions of the ASABE; (6) Journal of Environmental Management; (7) Agricultural Engineering International: the CIGR Ejournal; (8) Journal of Powder Technology; (9) Journal of Biosystems Engineering; (10) Applied Engineering in Agriculture; (11) Journal of Poultry Science; (12) Journal of Environmental Engineering Science; (13) Journal of Computer and Electronics in Agriculture; (14) Atmosphere; (15) Atmospheric Research; (16) International Journal of Agricultural and Biological Engineering; (17) Environmental Research; (18) EST; (19) ESPR; (20) ASHRAE; (21) Applied Poultry Research; (22) Animals

Grants:

1. **Wang-Li**, Shi, Classen, Anderson 2018-2023. “Fate, Transport and Transformation of Ammonia Emissions from Animal Feeding Operations and Their Impacts on Air-Soil Health”. NSF-CBET. **PI**
2. **Wang-Li**, Oviedo-Rondón, Classen. 2017-2023. “Mitigating Environmental Stress for Enhanced Broiler Production Performance and Welfare” USDA NIFA AFRI. **PI**
3. Shah, Anderson, **Wang-Li** 2020-2022. Using Electrostatic Precipitator to Improve Indoor Air Quality in Cage-free Layer Houses. US Poultry & Egg Association. **Co-PI**
4. **Wang-Li** 2019-2020. “Exploring Joint Research and Education Opportunities among Institutions in the US and China on Innovations at the Nexus of Food-Energy-Water System (INFEWS) for Sustainable Food Animal Production”. NCSU Internationalization Seed Grant. **PI**

5. Nelson, **Wang-Li**, Kolar, Noble, Oviedo-Rondón, Sharara 2019-2023 “FACT: Pigs, Poultry, the Planet and data-driven Problem Solving (P4)”. USDA NIFA REEU. **Co-PI**
6. Shah, **Wang-Li**, Stikeleather, Kolar, Castillo. 2014-2017. “Engineered Windbreak Wall - Vegetative Strip System to Reduce Pollutant and Odor Emissions from Mechanically-Ventilated Broiler and Swine Barns” USDA NRCS CIG Grant. **Co-PI**.
7. **Wang-Li**, Zering, Oviedo, Jones. 2014-2017. “Creating eLearning in NIFA Challenge Areas to transform education of controlled environment animal production (eCAEAP) for sustainability” USDA-NIFA-HEC (Subaward to the OSU). **PI**.
8. Shah, **Wang-Li**, Oviedo. 2014-2015. “Develop and Test Ammonia-Oxygen Monitoring System for Poultry Houses”. U.S. Poultry and Egg Association. **Co-PI**
9. **Wang, L.** 2010-2017. “CAREER: Fate and Transport of Aerosols from Animal Feeding Operations” funded by NSF-CBET. **PI**.
10. **Wang-Li, L.** 2012-2013. “Low Cost Ammonia Monitor for Agricultural Emissions”. USDA-NIFA-SBIR. Subcontract to Mesa Photonics, LLC. **PI**
11. Williams, M.C., J. Brake, M. Koci, C. Stark, **L. Wang**. 2010-2013. “Systems Approach to Reduce Ammonia and Particulate Emissions from Poultry Production Facilities” funded by USDA-NIFA-SRGP. **Co-PI**.
12. Williams, M.C., **L. Wang**, S. Shah, M. Rice. 2009-2012. “Coordinated Analysis to Facilitate Technology Transfer to Meet Emission Requirements for Next Generation Livestock & Poultry Production Facilities” funded by USDA-NIFA-002216. **Co-PI**.
13. **Wang, L.**, and D. Beasley. 2008-2011. “Characterizations of Particulate Matter Emitted from Egg Production Facilities: Sources *versus* Public Exposure” funded by USDA-NRI. **PI**.
14. Zering, K., **L. Wang**, L. Bull, E. vanHeugten and S. Liehr. 2008 – 2010. “Environmentally Sustainable Swine and Poultry Production Systems for the Future” funded by USDA-CSREES-001366. **Co-PI**.
15. **Wang, L.** 2007-2010. “The National Air Emission Monitoring Study (NAEMS) – Southeast Layer Site” funded by the Agricultural Air Research Council (AARC) under the EPA Air Quality Compliance Agreement for Animal Feeding Operations. **PI**.
16. **Wang, L.** 2007-2008. “Development of Bio-Aerosol Responding/Notifying System (BARNs)”. Funded by NC State University Faculty Research and Professional Development Program. **PI**.
17. Bull, L., C.M. Williams, **L. Wang** and S. Shah. 2006-2009. “Poultry and Livestock Air Quality Research Initiative” funded by USDA-CSREES. **Co-PI**.
18. Burton, M. and **L. Wang**. 2007-2010. “Longevity and Dispersal Of Glyphosate-Resistant Palmer Amaranth Pollen”. Cotton Incorporated, Inc. **Co-PI**.
19. Oviedo-Rondón, E.O., **L. Wang**, B. Sheldon, G. Havenstein and C.M. Williams. 2006-2007 “Ozonation to Reduce Ammonia Odor and Pathogens in Broiler Houses” funded by Animal and Poultry Waste Management Center (APWMC). **Co-PI**.

Graduated Students Advised/Chaired:

1. Sam Cherotich 2022-2025. **Ph.D.** Dissertation: *Deposition of Gas phase NH₃ and Particle Phase NH₄⁺*
2. Suraiya Akter 2018-2022. **Ph.D.** Dissertation: *Mitigating Heat Stress for Enhanced Broiler Performance and Welfare*. In-progress
3. Bin Cheng. 2013-2018. **Ph.D.** Dissertation: *Dynamics of Rural & Urban Atmospheric Chemical Conditions & Inorganic Aerosols*. Completed
4. Yijia (Zhao) Dietrich. 2014-2019. **Ph.D.** Dissertation: *Precursor Gases to Inorganic PM_{2.5} in North Carolina: CMAQ Modeling with An Improved Ammonia Emission Inventory for Animal Agriculture*. Complete
5. Jiancheng Han. 2014-2016. **Ph.D.** Dissertation: *Assessment of Regional Impacts of AFO Air Emissions: GIS Plus Dispersion Modeling Approach*. Incomplete
6. Qianfeng Li. 2008-2012. **Ph.D.** Dissertation: *Particulate Matter from an Egg Production Facility: Emission, Chemistry and Local Dispersion*. Completed
7. Zifei Liu. 2005-2009. **Ph.D.** Dissertation: *Measurement and Modeling Ammonia Emissions from Broiler Litter*. Completed
8. Blake Stratton 2021-2023. **M.S.** Thesis: *Formation of Secondary Inorganic PM_{2.5} as Impacted by Ammonia Emissions from Animal Feeding Operations (AFOs)*. In-progress
9. Derek West 2017-2020. **M.S.** Thesis: *Responses of Broiler Live Performance, Welfare Parameters, Litter Characteristics, and Air Emission to Air Velocity Treatments under Hot Summer Condition*. Completed

10. Feifan Kong 2016-2018. **MBAE**. *Responses of Laying Hen Performance to the Environmental & Management Factors*. Completed
11. Yuting Zheng. 2014-2015. **M.S.** Thesis: *Development of eLearning modules on Controlled Environment Animal Production (eCEAP): Broiler Specifics*. Incomplete
12. Aditya Padavagod Shivkumar. 2012-2014. **M.S.** Thesis: *Flow Testing and CFD Modeling of a Poultry Engineering Chamber Complex for Animal Environment, Air Quality and Animal Welfare Studies*. Completed
13. Manqing Ying. 2010-2012. **M.S.** Thesis: *Measurement and Modeling Plume Shape of Air Emissions from Animal Housing Systems: Applications of CFD and AERMOD*. Completed
14. Di Hu. 2010-2012. **M.S.** Thesis: *Temporal and Spatial Variations of Bioaerosol Concentrations Emitted from an Egg Production Farm in Southeastern U.S.* Completed
15. Zihan Cao. 2007-2009. **M.S.** Thesis: *Determination of Particle Size Distribution of PM Emitted from a Layer Operation in Southeast U.S.* Completed

Other Research Mentorship:

- **Graduate Committees**

1. Yuri Villa, 2022. **M.S.** in BAE. *Recirculation Electrostatic Precipitator for Particulate Matter Control in Cage Free layer Houses*
2. Derek Uemura, 2020. **M.S.** in BAE. *Responses of Turkey body temperatures to air velocity treatments*
3. Najawa Alnsour, 2019. **PhD.** in Soil Science. *Bi-Directional Exchange of Ammonia from Soils in Row Crop Agro-ecosystems*
4. Ali Ajami, 2019. **PhD** in BAE. *“Windbreak Wall-Vegetative Strip System to Reduce Air Emission from Mechanically-Ventilated Livestock Barns”*.
5. Yi Xu 2013. **PhD.** in poultry Science. *“Interaction of Dietary Coarse Corn with Litter Conditions on Broiler Live Performance and Gastrointestinal Tract Function”*.
6. Sang Ryong Lee, 2010. **PhD.** in Soil Science. *“Understanding Ammonia Emissions from Swine Animal Feeding Operations in North Carolina”*
7. Kai Wang. 2011. **PhD.** in MEA. *“Multiscale Multi-Pollutant Air Quality Modeling: Incorporation of Dust Treatments into CMAQ and Application for Criteria and Hazardous Air Pollutants”*
8. Tianheng Lin. 2011. **MS.** in BAE. *“Development and testing of an ammonia-oxygen monitoring system for poultry houses”*.
9. Richard Potter. 2013. **MS.** in MEA. *“Understanding, characterizing and modeling ammonia dispersion near CAFOs”*
10. Matthew Hood. 2011. **MS.** in BAE. *“Design and operation of a biofilter for treatment of swine house pit ventilation exhaust”*.
11. Allison Stark. 2011. **MS.** in Crop Science. *“Influence of distance from source and height above canopy on Palmer Amaranth pollen distribution”*
12. Haiyan Yao. 2009 **MS** in BAE, *“Ammonia emission from stored broiler cake”*

- **Postdoctoral Research Associates**

1. Ryan Hornles, 2019-2021
2. Qianfeng Li. 2007-2010

- **High-school and Undergraduate Summer Internships**

1. Jackson Evans, BAE, NCSU, 2022
2. Nyawira Nyota, BAE, NCSU, 2021, female and minority
3. Francia Wang, Green Hope high school, 2021, female
4. Joseph Ma, Enloe high school, 2019
5. Sherry Liu, Enloe high school, summer of 2017, Female
6. Etinosa Obanor, NC School of Science and Mathematics (NCSSM), 2013, female and minority
7. Beata Eaton, AET, NCSU, 2019, female
8. Spencer Shilthead, BAE, NCSU, 2019
9. Kandall Grumbles, BAE, NCSU 2018, female
10. Sarah Crandell, BAE, NCSU 2018, female
11. Sabriya Dobbins, NCSU, 2015, female and minority
12. Julia Alexandra Burroughs, NCSU, 2014, female
13. Symphony Roberts, NCSU, 2013, female and minority
14. Cheryl Odametey, NCSU, 2013, female and minority

15. Heather Jones, Meredith College, 2011, female

- **REEU Fellows**

1. Elise Rose Laudenslager, 2019

- **Visiting Scholars**

1. Hongchao Jiao, 2019-2020, Shangdong Agricultural University, China
2. Ying Ying Liu, 2018-2019, Nanjing Agricultural University, China
3. Yan Qian, 2017-2018, Nanjing Agricultural University, China
4. Xiuguo Zou, 2016-2017, Nanjing Agricultural University, China
5. Fei Hu, 2015-2016, Nanjing Agricultural University, China

Peer Reviewed Journal Articles:

1. Cheng, B., **L. Wang-Li***, J. Classen, P. Bloomfield. **2022**. Performance of a Thermodynamic Model for Predicting Inorganic Aerosols in the Southeastern U.S. *Journal of Aerosol & Air Quality Research*. In review.
2. Akter, S. Y. Liu, B. Cheng, J. Classen, E. Oviedo, **L. Wang-Li***. **2022**. Impact of Air Velocity Treatments under Summer Conditions: Part II-Heavy Broilers' Behavior Responses. *Animals*. 2022,12,1050. <https://doi.org/10.3390/ani12091050>
3. Dai, X., X. Wang, A. Wang, P. Bao, **L. Wang-Li**, H. Xiao, K. Wang. **2022**. Identification of size-segregated bioaerosol community and pathogenic bacteria in a tunnel-ventilated layer house: Effect of manure removal. *Water Air Soil Pollut.* (2022)233:85. <https://doi.org/10.1007/s11270-022-05536-6>
4. Akter, S. B. Cheng, D. West, Y. Liu, Y. Qian, X. Zou, J. Classen, H. Cordova, E. Oviedo, **L. Wang-Li***. **2022**. Impact of Air Velocity Treatments under Summer Conditions: Part I-Heavy Broiler Surface Temperature Response *Animals*. 2022, 12, 328. <https://doi.org/10.3390/ani12030328> .
5. Cheng, B., **L. Wang-Li***, J. Classen, N. Meskhidze, P. Bloomfield. **2021**. Partitioning of NH₃-NH₄⁺ in the Southeastern U.S. *Atmosphere*. Volume 12, Issue12, 1681. <https://doi.org/10.3390/atmos12121681>
6. Hu, F., B. Cheng, **L. Wang-Li***. **2021**. Characteristics of Particulate Matter Emissions from Swine and Poultry Production Houses in the United States. *Transaction of ASABE*. 64(5): 1569-1579. <https://doi.org/10.13031/trans.14622>
7. Cheng, B., A. Padavagod Shivkumar, **L. Wang-Li***. **2021**. Inverse AERMOD and SCIPUFF dispersion modeling for farm level PM₁₀ emission rate assessment. *Transaction of ASABE* 64(3): 801-817. <https://doi.org/10.13031/trans.14311>
8. Wang, X. X. Dai, A. Wang, **L. Wang-Li**, M. Yang, H. Xiao, Y. He, K. Wang. **2021**. Size-segregated physicochemical properties of inhalable particulate matter in a tunnel-ventilated layer house in China. *Environmental. Research*. <https://doi.org/10.1016/j.envres.2021.112064>
9. Cheng, B., **L. Wang-Li***, J. Classen, N. Meskhidze, P. Bloomfield. **2020**. Spatial and temporal variations of atmospheric chemical conditions in the Southeastern U.S. *Atmospheric Research*. Volume 248 (2021)105190. <https://doi.org/10.1016/j.atmosres.2020.105190>
10. Ajami, A., S. B. Shah, **L. Wang-Li**, P. Kolar, M. S. Castillo. **2019**. Windbreak Wall-Vegetative Strip System to Reduce Air Emissions from Mechanically-Ventilated Livestock Barns – Part 3: Layer House Evaluation. *Water, Air, & Soil Pollution*. <https://doi.org/10.1007/s11270-019-4345-0> .
11. Ajami, A., S. B. Shah, **L. Wang-Li**, P. Kolar, M. S. Castillo. **2019**. Windbreak Wall-Vegetative Strip System to Reduce Air Emissions from Mechanically-Ventilated Livestock Barns – Part 2: Swine House Evaluation. *Water, Air, & Soil Pollution*. <https://doi.org/10.1007/s11270-019-4335-2>
12. **Wang-Li***, L., Y. Xu, A.P. Shivkumar, C.M. Williams, J. Brake. **2019**. Effect of dietary coarse corn inclusion on broiler live performance, litter characteristics, and ammonia emission. *Journal of Poultry Science*. <https://doi.org/10.1016/j.psj.2019.10.010>
13. Cheng, B., **L. Wang-Li***, J. Classen, N. Meskhidze, P. Bloomfield. **2019**. Spatial and temporal variations of PM_{2.5} mass closure and inorganic PM_{2.5} in the Southeastern U.S. *Journal of Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-019-06437-8>
14. Cheng, B., and **L. Wang-Li***. **2019**. Responses of secondary inorganic PM_{2.5} to precursor gases in an ammonia abundant area in North Carolina. *Journal of Aerosol & Air Quality Research*. <https://doi.org/10.4209/aaqr.2018.10.0384>
15. Cheng, B., and **L. Wang-Li***. **2019**. Spatial and temporal variations of PM_{2.5} in North Carolina. *Journal of Aerosol & Air Quality Research*. Vol.19, Issue 4:698-710. <https://doi.org/10.4209/aaqr.2018.03.0111>

16. Wang, K., S. Dai, **L. Wang**. 2017. Research progress on pollution and monitoring technology of particulate matter from livestock and poultry farms. *Transactions of Chinese Society of Agricultural Machinery*. Volume 48 issue 6: 232-241. <https://doi.org/10.6041/j.issn.1000-1298.2017.06.030>
17. Ying, M.; **L. Wang-Li***, L.F. Stikeleather, J. Edward. 2017. Modeling plume-rise of air emissions from animal housing systems: inverse AERMOD. *Journal of Environmental Protection*. Vol.8 No.11, 1254-1269.
18. Ying, M.; **L. Wang-Li***, L.F. Stikeleather, J. Edward. 2017. Measurements and visualization of the fluid field of the plume from an animal housing ventilation fan. *Journal of Environmental Protection*. Vol.8 No.11, 1296-1311.
19. Lin, T. S.B. Shah, **L. Wang-Li**, E. O. Oviedo-Rondon, J. Post. 2016. Development of MOS sensor-based NH₃ Monitor for Use in Poultry Houses. *Computer and Electronics in Agriculture*. 127: 708-715.
20. Padavagod Shivkumar, A. **L. Wang-Li***, S.B. Shah, L.F. Stikeleather, M. Fuentes. 2016. Performance analysis of a poultry engineering chamber complex for animal environment, air quality, and welfare studies. *Transaction of the ASABE*. Vol.59(5):1371-1381
21. Hu, D. L. **Wang-Li***, O.D. Simmons, J.J. Classen, J.A. Osborne. 2016. Size distributions of bioaerosols in the vicinity of an egg production facility in Southeast U.S. *Environmental Engineering Science*. Volume 33, Number 4, 215-223.
22. Wang, K. Q. Li, **L. Wang-Li***, I. Kilic, B.W. Bogan, C-H. Xiao, J-Q. Ni, A.J. Heber. 2016 National air emissions monitoring study's Southeast layer site: Part V. hydrogen sulfide and VOCs. *Transaction of the ASABE*. Vol.59(2):681-693.
23. Hu, D. L. **Wang-Li***, O.D. Simmons, J.J. Classen, and J.A. Osborne. 2015. Spatiotemporal variations of bioaerosols in the vicinity of an animal feeding operation facility in the U.S. *Journal of Environmental Protection*. 6, 614-627.
24. Hood, M., S.B. Shah, P. Kolar, **L. Wang-Li**, L. Stikeleather. 2015. Biofiltration of ammonia and GHGs from Swine Gestation Barn Pit Exhaust. *Transaction of the ASABE*. Vol. 58(3): 771-782.
25. **Wang-Li**, L. 2015. Insights to the formation of secondary inorganic PM_{2.5}: current knowledge and future needs. *International Journal of Agricultural and Biological Engineering*. Vol. 8, No.2 (2015). DOI: 10.3965/j.ijabe.20150802.1810
26. Li, Q.-F., **L. Wang-Li***, R.K.M. Jayanty, and S. B. Shah. 2015. Elemental Composition and Chemical Mass Closure of Fine Particulate in an Animal Feeding Operation Facility and Its Vicinity. *Journal of Environmental Protection*. 6, 409-425.
27. Li, Q.-F., **L. Wang-Li***, Z. Liu, R.K.M. Jayanty, S. B. Shah, and P. Bloomfield. 2014. Major ionic composition of fine particulate matter in an animal feeding operation facility and its vicinity. *Journal of AWMA*. 64(11):1279-1287.
28. Hu, D. L. **Wang-Li***, O.D. Simmons, J.J. Classen, J.A. Osborne and G.E. Byfield. 2014. Bioaerosol concentrations and emissions from tunnel ventilated high-rise layer operation houses in the United States. *Transaction of ASABE*. Vol. 57(3):915-925.
29. Li, Q.-F., **L. Wang-Li***, R.K.M. Jayanty, S. B. Shah, and P. Bloomfield. 2014. Ammonia concentrations and modeling inorganic particulate matter in the vicinity of an egg production facility. *Journal of Environmental Science and Pollution Research*. Vol21, 6(2014):4675-4685
30. **Wang-Li**, L., Q-F. Li, K. Wang, B.W. Bogan, J-Q. Ni, E.L. Cortus, and A.J. Heber. 2013. National air emissions monitoring study's Southeast layer site: Part I.site characteristics and monitoring methodology. *Transaction of the ASABE*. 56(3):1157-1171.
31. Li, Q-F., **L. Wang-Li***, K. Wang, L. Chai, E.L. Cortus, I. Kilic, B.W. Bogan, J-Q. Ni. A.J. Heber. 2013. National air emissions monitoring study's Southeast layer site: Part II. particulate matter. *Transaction of the ASABE*. 56(3):1173-1184.
32. **Wang-Li**, L., Q-F. Li, L. Chai, E. L. Cortus, K. Wang, I. Kilic, B.W. Bogan, J-Q. Ni, A.J. Heber. 2013. National air emissions monitoring study's Southeast layer site: Part III.ammonia concentrations and emissions. *Transaction of the ASABE*. 56(3):1185-1197.
33. Li, Q-F., **L. Wang-Li***, B.W. Bogan, K. Wang, L. Chai, J-Q. Ni. A.J. Heber. 2013. National air emissions monitoring study's Southeast layer site: Part IV.effects of farm management. *Transaction of the ASABE*. 56(3): 1199-1209.
34. **Wang-Li**, **L.** 2013. Techniques for characterization of particulate matter emitted from animal feeding operations. Peer-reviewed book chapter of "Evaluating Veterinary Pharmaceutical Behavior in the Environments". Chapter 2, pp15-39. American Chemical Society (ACS). DOI: 10.1021/bk-2013-1126.ch002.

35. Li, Q-F., **L. Wang-Li***, R.K.M. Jayanty, S.B. Shah. **2013**. Organic and elemental carbons in atmospheric fine particulate in an animal agriculture intensive area in North Carolina: estimation of secondary organic carbon concentration. *Open Journal of Air Pollution*. 2013, 2:7-18
36. **Wang-Li, L.**, Q. Li, G.E. Byfield. **2013**. Identifications of bioaerosols released from an egg production facility in Southeast U.S. *Journal of Environmental Engineering Science*. 30(1):2-10.
37. **Wang-Li, L.**, Cao, Z. M. D. Buser, D. Whitelock, C.B. Parnell and Y. Zhang. **2013**. Techniques for measuring particle size distribution of particulate matter emitted from animal feeding operations. *Atmospheric Environment*. 66(2013)25-32.
38. **Wang-Li, L.**, Z. Cao, Q. Li, Z. Liu, and D.B. Beasley. **2013**. Concentration and particle size distribution of particulate matter emitted from tunnel ventilated high-rise layer operation houses. *Atmospheric Environment*. 66 (2013)8-16.
39. Jones, H.W., **L. Wang-Li**, B. Y. Boroujeni. **2012**. Impact of downwind sampling location and sampling height on inverse-Gaussian dispersion modeling of air emissions from animal feeding operations: a theoretical study. *International Journal of Agricultural and Biological Engineering*. Vol.5 No.4 (2012):39-46.
40. Li, Q-F., **L. Wang-Li***, J.T. Walker, S. B. Shah, P. Bloomfield and R.K.M. Jayanty. **2012**. Particulate matter in the vicinity of an egg production facility: concentrations, statistical distributions and upwind and downwind comparison. *Transaction of the ASABE*. Vol.55(5):1965-1973.
41. Li, Q-F., **L. Wang-Li***, Z. Liu, and A.J. Heber. **2012**. Field evaluation of particulate matter measurements using tapered element oscillating microbalance in a layer house. *Journal of Air and Waste Management Association*. 62(3):322-335.
42. Start, A.M., M.G. Burton, D.L. Jordan, R.J. Richardson, J.F. Spears, S.T. Hoyle and **L. Wang-Li**. **2012**. Influence of distance from source and height above canopy on Palmer Amaranth pollen distribution. *Crop Management*. DOI:10.1094/Cm-2012-0524-01-RS
43. Li, Q-F., **L. Wang-Li***, S.B. Shah, R.K.M. Jayanty, and P. Bloomfield. **2011**. Fine particulate matter in a high-rise layer house and its vicinity. *Transaction of the ASABE*. Vol. 54(6):2299-2310.
44. Yao, H. S.B. Shah, D.H. Willits, P.W. Westerman, **L. Wang-Li**, and T.K. Marshall. **2011**. Ammonia emissions from broiler cake stockpile in a naturally ventilated shed. *Transaction of the ASABE*. Vol.54(5): 1893-1904.
45. Liu, Z., **L. Wang-Li***, D.B. Beasley and S.B. Shah. **2011**. Validation and uncertainty analysis of an ammonia emission model for broiler litter. *Transaction of the ASABE*. Vol.54(3):1054-1057.
46. Li, Q., **L. Wang***, E.O. Oviedo-Rondón, and C.B. Parnell. **2010**. Impact of ozonation on particulate matter in broiler houses. *Journal of Poultry Science*. Vol. 89:2052-2062
47. Park, J.M., J.C. Rock, **L. Wang**, Y.-C. Seo, A. Bhatnagr, S. Kim. **2009**. Performance evaluation of six different aerosol samplers in a particulate matter generation chamber. *Atmospheric Environment*. 43(2) 280-289.
48. **Wang, L.**, E.O. Oviedo-Rondón, J. Small, Z. Liu, B.W. Sheldon, G.B. Havenstein, and M.C. Williams. **2010**. Farm-scale evaluation of ozonation for mitigating ammonia emissions from broiler houses. *Journal of Air and Waste Management Association*. Vol.60:789-796.
49. Li, Q., **L. Wang***, Z. Liu, and R. Kamens. **2009**. Could ozonation technology really work for mitigating air emissions from animal feeding operations? *Journal of Air and Waste Management Association*. Vol.59:1239-1246.
50. Liu, Z., **L. Wang***, D.B. Beasley and Sanjay Shah. **2009**. Modeling ammonia emissions from broiler litter at laboratory scale. *Transaction of the ASABE*. Vol.52(5):1683-1694.
51. Liu, Z., **L. Wang***, and D.B. Beasley. **2008**. Comparison of three techniques for determining ammonia emission fluxes from broiler litter. *Transactions of the ASABE*. Vol. 51(5): 1783-1790.
52. Liu, Z., **L. Wang***, D.B. Beasley, E. Oviedo. **2007**. Effect of moisture content on ammonia emissions from broiler litter: a laboratory study. *Journal of Atmospheric Chemistry*. (2007)58:41-53.
53. Buser, M.D., D.P. Whitelock, G.A. Holt, C.B. Armijo, and **L. Wang**. **2007**. Collection efficiency evaluation of baffle-type pre-separator configurations: effects of baffle location and inlet velocities. *Applied Engineering in Agriculture*. Vol. 23(3):347-355.
54. **Wang, L.**, C.B. Parnell, and M.D. Buser. **2007**. Theoretical study for the impact of PM settling on ambient PM₁₀ monitoring for agricultural emissions. *Journal of Air and Waste Management Association*. Vol.57:111-115.

55. **Wang, L.**, D.B. Parker, C. B. Parnell, R.E. Lacey, and B.W. Shaw. **2006**. Comparison of CALPUFF and ISCST3 models for predicting downwind odor and source emission. *Atmospheric Environment*. 40(2006):4663-4669.
56. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2006**. A Theoretical Approach for Predicting Number of Turns and Cyclone Pressure Drop. *Transactions of the ASAE*. Vol. 49(2): 491-503
57. **Wang, L.**, C.B. Parnell, B.W. Shaw, R.E. Lacey, M.D. Buser, L B. Goodrich and S.C. Capareda. **2005**. Correcting PM₁₀ over-sampling problems for agricultural particulate matter: preliminary study. *Transactions of the ASAE*. Vol. 48 (2):749-755.
58. **Wang, L.**, J.D. Wanjura, C. B Parnell, R.E. Lacy and B.W. Shaw. **2005**. Performance characteristics of low-volume PM₁₀ sampler. *Transactions of the ASAE*. Vol.48 (2): 739-748.
59. **Wang, L.**, M.D. Buser, C.B. Parnell and B.W. Shaw. **2003**. Effect of air density on cyclone performance and system design. *Transactions of the ASAE* Vol.46 (4): 1193-1201.
60. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2002**. Performance characteristics of cyclones in cotton-gin dust removal. *Agr. Engng. Intl*. Volume IV. Manuscript No. BC02001.
61. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2002**. Study of the cyclone fractional efficiency curves. *Agr. Engng. Intl*. Volume IV. Manuscript No. BC02002.

Other Peer Reviewed Publications:

1. Christy, Ann D. , Lingying Zhao, Emily Buck, Xinlei Wang, Lingjuan **Wang Li**, Richard Stowell, Ralph C. Noble, Kelly Zering, Edgar Oviedo, Angela Green, Crystal Powers, and Mulumebet Worku. **2018**. Technology-enhanced faculty development in controlled environment animal production. *NACTA Journal Abstracts 62(1): 57-58*.
2. Zhao, L., **L. Wang-Li**, R. C. Noble, M. Worku, A. D. Christy, X. Wang, and R. Stowell. **2018**. Experiential Learning in Environmental Control of Animal Production for Minority Students. *NACTA Journal Abstracts 62(1):57*.
3. Stowell, R., **L. Wang-Li**, and L. Zhao. **2018**. Instructor experiences in implementing eCEAP eLearning curriculum. Abstract #247 in *NACTA Journal 62 (Supl. 1): 109*. ISBN: 978-1-387-71616-6.
4. **Wang-Li, L.** O.D. Simmons III, E.F. Wheeler. **2012**. Bioaerosol Sampling in Animal Environments. Available at <http://www.extension.org/sites/default/files/Bioaerosol%20SamplingFINAL.pdf>.
5. Shah, S., G. Grabow, **L. Wang-Li**, J. Parson. **2014**. Poultry waste stockpiling method: environmental impacts and their mitigation. *NCCES Bulletin AG-788W*.

Conference Papers, Abstracts, and Presentations

1. Stratton, B. S. Akter, W. Shi, J. Classen, K. Anderson, **L. Wang-Li**. 2022. Formation of Secondary Inorganic PM_{2.5} as Impacted by Ammonia Emissions from Animal Feeding Operations. An ASABE Annual International Meeting (AIM) Presentation 2200830. Presented at 2022 ASABE AIM, July 17-20, Houston, TX.
2. Akter, S. **L. Wang-Li**, J. Classen, E. Oviedo, C. Sayde. 2022. Retractable Baffle Design to Promote Wind Chill Effects for Heavy Broiler Heat Stress Mitigation: CFD Modeling. An ASABE Annual International Meeting (AIM) Presentation 2200584. Presented at 2022 ASABE AIM, July 17-20, Houston, TX.
3. Villa, Y. S. Shah, **L. Wang-Li**, K. Anderson, G. Ellington, P. Kolar. 2022. Modleinh a Recirculating Electrostatic Precipitator for a Cage Free Layer. An ASABE Annual International Meeting (AIM) Presentation 2201211. Presented at 2022 ASABE AIM, July 17-20, Houston, TX.
4. **Wang-Li, L.** 2021. Layer Farm Environmental Management: Air Emission Characteristics. 2021 Georgia Layer Conference. September 27, 2021.
5. **Wang-Li, L.**, R. Holmes, Akter, S., W. Shi, J. Classen, K. Anderson. 2021. Ammonia Concentrations and Deposition in the Near Field of a Poultry Production Unit. An ASABE Annual International Meeting (AIM) Presentation 2100651. Presented at 2021 ASABE Virtual AIM, July 11-15, 2021
6. Akter, S., Y. Liu, B. Cheng, D. West, J. Classen, **L. Wang-Li**, E. Oviedo-Rondon, H.A. Cordova, V. San Martin. 2021. Broilers' Behavioral Responses to Air Velocity Treatments under Hot Summer Condition. An ASABE Annual International Meeting (AIM) Presentation 2100637. Presented at 2021 ASABE Virtual AIM, July 11-15, 2021.
7. Akter, S., D. West, B. Cheng, J. Classen, **L. Wang-Li**, E. Oviedo-Rondon, H.A. Cordova, V. San Martin. 2020. Heavey Broiler Surface Temperature responses to Air Velocity Treatments under heat Stress.

- 2020 ASABE Paper No. 2000604. Presented at 2020ASABE Virtual Annual International Meeting, July 12-16, 2020
8. Holmes, R., **L. Wang-Li**, W. Shi, J. Classen, K. Anderson. Monitoring Deposition of NH₃/NH₄⁺ in the Vicinity of a Poultry Unit: Method Development. 2020 ASABE Paper No. 2001170. Presented at 2020ASABE Virtual Annual International Meeting, July 12-16, 2020
 9. J Gibson, **L Wang-Li**, E Oviedo-Rondón, P Kolar, M Sharara, R Noble, NG Nelson, 2019. Analysis and Interpretation for Agricultural Wastewater Treatment Data, Undergraduate Research & Creative Inquiry Symposium, NC Agricultural & Technical State University, Greensboro, NC, 2019
 10. A Macon, E Fidan, NG Nelson, **L Wang-Li**, P Kolar, R Noble, E Oviedo-Rondón, M Sharara, 2019. Identifying Hotspots of Future Animal Climate Control Needs in the U.S., Undergraduate Research & Creative Inquiry Symposium, NC Agricultural & Technical State University, Greensboro, NC, 2019
 11. A Macon, E Fidan, NG Nelson, **L Wang-Li**, P Kolar, R Noble, E Oviedo-Rondón, M Sharara, 2019. Identifying Hotspots of Future Animal Climate Control Needs in the U.S., 8th Annual Student Showcase of Excellence for the College of Agriculture and Environmental Sciences (CAES) at NC A&T State University
 12. A Dean, L Montefiore, NG Nelson, **L Wang-Li**, P Kolar, R Noble, E Oviedo-Rondón, M Sharara, 2019. Swine Production across the North Carolina Landscape, Annual International Meeting, American Society of Agricultural and Biological Engineers, Boston, MA, 2019
 13. A Macon, E Fidan, NG Nelson, **L Wang-Li**, P Kolar, R Noble, E Oviedo-Rondón, M Sharara, 2019. Identifying Hotspots of Future Animal Climate Control Needs in the U.S., Annual International Meeting, American Society of Agricultural and Biological Engineers, Boston, MA, 2019
 14. A Brown, M Sharara, **L Wang-Li**, P Kolar, R Noble, E Oviedo-Rondón, NG Nelson, 2019. Analyzing the Post-WWII History of U.S. Animal Agriculture to Predict Future Production Trends, Annual International Meeting, American Society of Agricultural and Biological Engineers, Boston, MA, 2019
 15. G Murray, **L Wang-Li**, E Oviedo-Rondón, P Kolar, M Sharara, R Noble, NG Nelson, How do Environmental Conditions in Poultry Houses impact Poultry Performance? Annual International Meeting, American Society of Agricultural and Biological Engineers, Boston, MA, 2019
 16. J Gibson, **L Wang-Li**, E Oviedo-Rondón, P Kolar, M Sharara, R Noble, NG Nelson, Analysis and Interpretation for Agricultural Wastewater Treatment Data, Annual International Meeting, American Society of Agricultural and Biological Engineers, Boston, MA, 2019.
 17. Liu, Y., B. Cheng, D. West, S. Akter, **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa. 2019. Image Analysis of Heavy Broiler Behavior under Summer Heat Stress Condition. Presented at 2019 International Symposium on Animal Environment and Welfare (2019 ISAEW). October 21-24. Chongqing, China.
 18. Liu, Y., D. West, S. Akter, B. Cheng, J. Classen **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa. 2019. Behavior Responses of heavy broilers to air velocity treatments under hot summer conditions. ASABE Paper No. 1900570. Presented at 2019ASABE Annual International Meeting, July 8-10. Boston, MA.
 19. Akter, S., Y. Qian, Y. Liu, B. Cheng, D. West, J. Classen **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa, V. San Martin-Diaz. 2019. Heat and moisture production of heavy broilers under hot summer conditions. ASABE Paper No. 1900590. Presented at 2019ASABE Annual International Meeting, July 8-10. Boston, MA.
 20. West, D., B. Cheng, S. Akter, Y. Liu, J. Classen **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa. 2019. Responses of broiler live performance and welfare parameters to air velocity under summer conditions. ASABE Paper No. 1901359. Presented at 2019ASABE Annual International Meeting, July 8-10. Boston, MA.
 21. Zhao, Y. **L. Wang-Li**, S. Shah, N. Meskhidze, B. Reich. 2019. Application of a new ammonia emission inventory for poultry and swine farms in NC. ASABE Paper No. 1900572. Presented at 2019ASABE Annual International Meeting, July 8-10. Boston, MA.
 22. Oviedo-Rondon, E.O., H.A. Cordova, V. San Martin, G. Quintana, C. Alfaro, I. Cardenas, I. Camilo Ospina, M. Chico, B. Cheng, Y. Zhao, D. West, and **L. Wang-Li**. 2019. Air velocity under heat stress affects heavy broiler live performance and breast meat yield without changing meat quality or welfare parameters. *International Poultry Scientific Meeting*, Atlanta, GA, Feb 11- 12.
 23. Qian, Y., B. Cheng, D. West, Y. Zhao, X. Zou, S. Liu, F. Hu, **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa, V. San Martin-Diaz. 2018. Heat and moisture production of heavy broilers: a

- chamber study. ASABE Paper No. 1800895. Presented at 2018ASABE Annual International Meeting, July 29-August 1 Detroit, Michigan.
24. West, D., B. Cheng, Y. Zhao, X. Zou, Y. Qian, F. Hu, **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa, V. San Martin-Diaz. 2018. Ammonia emission as impacted by air velocity treatment for heavy broiler: a chamber study. ASABE Paper No. 1801179. Presented at 2018 ASABE Annual International Meeting, July 29-August 1. Detroit, Michigan.
 25. Cheng, B., D. West, Y. Zhao, X. Zou, Y. Qian, F. Hu, **L. Wang-Li**, E. Oviedo-Rondón, H. Cordova-Noboa, V. San Martin-Diaz. 2018. Emission and characteristics of particulate matter as impacted by air velocity treatment for heavy broiler: a chamber study. ASABE Paper No. 1800872. Presented at 2018ASABE Annual International Meeting, July 29-August 1. Detroit, Michigan.
 26. Zhao, Y. **L. Wang-Li**, S. Shah, N. Meskhidze, J. Guinness. 2018. Atmospheric modeling of precursor gases to inorganic PM_{2.5} in regional scale coupled with an improved ammonia emission inventory for animal agriculture. ASABE Paper No. 1800882. Presented at 2018ASABE Annual International Meeting, July 29-August 1. Detroit, Michigan.
 27. Cheng, B., **L. Wang-Li**, N. Meskhidze, J. Classen, P. Bloomfield. 2018. Dynamics of rural and urban inorganic aerosols. ASABE Paper No. 1800870. Presented at 2018ASABE Annual International Meeting, July 29-August 1. Detroit, Michigan.
 28. Cifuentes, J., E. Oviedo-Rondón, H. Cordova-Noboa, A. Sarsour, V. San Martin-Diaz, S. Alvarez-Muñoz, I. Martinez-Rojas, F. Tovar, C. Florez-Leguizamon, **L. Wang-Li**, B. Cheng, and Y. Zhao. 2018. Effect of air velocity on broiler live performance, meat yield and breast meat quality up to 61 d. Abstract M116, p. 32. International Poultry Scientific Meeting, Atlanta, GA, Jan 29- 30, 2018.
 29. **Wang-Li, L.**, E. Oviedo-Rondon, J.J. Classen. 2017. Mitigating environmental stress for enhanced broiler production performance & welfare. Presented at 2017 International Symposium on Animal Environment and Welfare (2017 ISAEW). October 23-26. Chongqing, China
 30. Zou, X., B. Cheng, **L. Wang-Li**. 2017. Spatiotemporal variations of PM_{2.5} in Jangsu China and North Carolina. ASABE Paper No. 1700542. Presented at 2017ASABE Annual International Meeting, July 16-19. Spokane, Washington
 31. Cheng, B., **L. Wang-Li**, J. Classen, N. Meskhidze, P. Bloomfield. 2017. Spatial and temporal variations of atmospheric chemical conditions in the Southeastern U.S. ASABE Paper No. 1700540. Presented at 2017ASABE Annual International Meeting, July 16-19. Spokane, Washington
 32. Zhao, Y., **L. Wang-Li**, S.B. Shah, N. Meskhidze, J. Guinness. 2017. An improved NH₃ emission inventory for AFOs in NC. ASABE Paper No. 1700543. Presented at 2017ASABE Annual International Meeting, July 16-19. Spokane, Washington
 33. **Wang-Li, L.** Role of Agriculture in Air Pollution. Invited Talk at 2nd Annual UCSF Fresno Symposium on Air Pollution and Climate Change, April 8, 2017. Fresno, CA.
 34. Hu, F. and **L. Wang-Li**. 2016. Characteristics of particulate matter emissions from animal feeding operations in the U.S. ASABE Paper No. 2461589. 2016ASABE Annual International Meeting, July 17-20. Orlando, Florida
 35. Cheng, B. and **L. Wang-Li**. 2016. Spatial and temporal variations of secondary inorganic PM_{2.5} in North Carolina. ASABE Paper No. 2461607. 2016ASABE Annual International Meeting, July 17-20. Orlando, Florida
 36. Zhao, Y. and **L. Wang-Li**. 2016. Spatiotemporal variations of precursor gases to secondary inorganic PM_{2.5} in North Carolina. ASABE Paper No. 2461601. 2016ASABE Annual International Meeting, July 17-20. Orlando, Florida
 37. Zheng, Y., **L. Wang-Li**, E. O. Oviedo, K. Zering, L. Zhao. 2016. Development of eLearning Modules on Controlled Environment Animal Production: Air Quality, Economics and Broiler Specifics. ASABE Paper No. 2461611. 2016ASABE Annual International Meeting, July 17-20. Orlando, Florida
 38. **Wang-Li, L.**, B. Cheng, Y. Zhao. 2016. Spatial and Temporal Variations of Inorganic PM_{2.5} as Impacted by its Precursor Gaseous Emissions in North Carolina. Invited speech at 6th International Conference on Environmental Technology and Knowledge Transfer. May 19-20, Hefei, China.
 39. Zhao, Y. and **L. Wang-Li**. 2015. Spatial distribution of ammonia emission density as impacted by poultry and swine production in North Carolina of the U.S. *Int. Symp. on Animal Environ. & Welfare*. Oct. 23–26, 2015, Chongqing, China.

40. Cheng, B. and **L. Wang-Li**. 2015. Responses of secondary iPM_{2.5} to precursors in an NH₃-rich area in NC. ASABE Paper No. 152190036. 2015ASABE Annual International Meeting, July 26-29. New Orleans, Louisiana
41. Zheng, Y., **L. Wang-Li**, E. Oviedo, K. Zering, L. Zhao. 2015. Control of AFO air emissions for reduced climate change and environmental impacts. ASABE Paper No. 15218998. 2015ASABE Annual International Meeting, July 26-29. New Orleans, Louisiana
42. Zhao, Y, J. Burroughs, S. Dobbins and **L. Wang-Li**. 2015. Spatial distribution of AFO facilities and associated NH₃ emissions in NC. ASABE Paper No. 152190024. 2015ASABE Annual International Meeting, July 26-29. New Orleans, Louisiana
43. **Wang-Li, L.**, B. Cheng. 2014. Formation of Secondary PM_{2.5} as Impacted by Air Emissions from Animal Feeding Operations: A Review. ASABE Paper No. 1907856. 2014ASABE Annual International Meeting, July 13-16. Montreal, Canada.
44. Shivkumar, A.P., B. Cheng, **L. Wang-Li**. 2014. Application of Inverse AERMOD and SCIPUFF for Farm level Air Emission Rate Assessment. ASABE Paper No. 1907741. 2014ASABE Annual International Meeting, July 13-16. Montreal, Canada.
45. **Wang-Li, L.**, Y. Xu, A.P. Shivkumar, C. Williams, J. Brake. 2014. Nitrogen Mass Balance Approach to Assessing Ammonia Emission from Broiler Litter: A Chamber Study. ASABE Paper No. 1907915. 2014ASABE Annual International Meeting, July 13-16. Montreal, Canada.
46. Lin, T., S.B. Shah, **L. Wang-Li**. 2014. Selection of Low-cost and Robust Sensors for Measuring Ammonia Concentrations in Poultry Production Environments: A Laboratory Study. ASABE Paper No. 1907975. 2014ASABE Annual International Meeting, July 13-16. Montreal, Canada.
47. Shivkumar, A.P., **L. Wang-Li**, S.B. Shah and Stikeleather. 2014. Performance Analysis of A Poultry Engineering Chamber Complex Using Computational Fluid Dynamics (CFD). ASABE Paper No. 1907795. 2014ASABE Annual International Meeting, July 13-16. Montreal, Canada.
48. Xu, Y., **L. Wang-Li**, C. R. Stark, P. R. Ferket, C. M. Williams, and J. Brake. 2014. Effects of coarsely ground corn inclusion on female broiler live performance, gizzard and proventriculus weight, litter characteristics and ammonia emission. International Poultry Scientific Forum. Southern Poultry Science Society Meeting.
49. Oviedo-Rondón, E.O., S.B. Shah, and **L. Wang-Li**. 2013. Air Emissions from Poultry Houses. In proceedings of the International Congress on Advancements in Poultry Production in the Middle East and African States. October 21-25, 2013, Antalya, Turkey.
50. **Wang-Li, L.**, A.P. Shivkumar, Munilla, Y, Xu, R.D. Munilla, M.E. Adcock, J.C. Tutor, J. Brake, and C.M. Williams. 2013. Performance of a poultry engineering chamber complex for animal environment and welfare studies. In proceedings of 2013 International Symposium on Animal Environment and Welfare. October 19-22, Chongqing, China.
51. Shivkumar, A.P., E. O. Obanor and **L. Wang-Li**. 2013. Spatial variations of air pollutants in the vicinity of an AFO facility: NH₃, PM and Bioaerosols. ASABE Paper No. 1579712. Presented at 2013ASABE Annual International Meeting, July 22-24. Kansas, MO.
52. Shivkumar, A.P., **L. Wang-Li**, Munilla, R.D., M.E. Adcock, J.C. Tutor and S.B. Shah. 2013. Flow testing of a poultry engineering chamber complex for animal environment, air quality and animal welfare studies. ASABE Paper No. 1579505. Presented at 2013ASABE Annual International Meeting, July 22-24. Kansas, MO.
53. Li, Q-F., **L. Wang-Li**, A.J. Heber. 2012. Laying hen performance: field observations and time series simulation. ASABE Paper No. 121337791. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX
54. Li, Q-F., **L. Wang-Li**, R.K.M. Jayanty, S.B. Shah. 2012. Organic and elemental carbon in atmospheric fine particulate in an animal agriculture intensive area in North Carolina: estimation of secondary organic carbon concentration. ASABE Paper No. 121337796. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX
55. **Wang-Li, L.**, Munilla, R.D., S. Badawi, M.E. Adcock, J.C. Tutor, C.M. Shah. 2012. Design and assembly of a poultry simulation chamber complex for air quality and animal welfare studies. ASABE Paper No. 121337793. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX.
56. Ying, M., **L. Wang-Li**, L. Stikeleather, J. Edwards, and H. Wang. 2012. Modeling plume rise of air emissions from animal housing systems: application of CFD. ASABE Paper No. 121337786. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX.

57. Ying, M., **L. Wang-Li**, L. Stikeleather, J. Edwards, and H. Wang. 2012. Modeling plume rise of air emissions from animal housing systems: application of AEROMOD. ASABE Paper No. 121337784. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX.
58. Hu, D., **L. Wang-Li**, O. D. Simmons, J. J. Classen, J. A. Osborne. 2012. Temporal and Spatial Variations of Bioaerosols Emitted from an Egg Production Facility in Southeast U.S.: Part II – Concentrations in the Vicinity. ASABE Paper No. 121337788. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX.
59. Hu, D., **L. Wang-Li**, O. D. Simmons, J. J. Classen, J. A. Osborne. 2012. Temporal and Spatial Variations of Bioaerosols Emitted from an Egg Production Facility in Southeast U.S.: Part III – particle size distribution. ASABE Paper No. 121337789. Presented at 2012ASABE Annual International Meeting, July 29-August 1. Dallas, TX.
60. Hu, D., **L. Wang-Li**, O.D. Simmons, J. J. Classen, J. A. Osborne. 2012. Measurement and analysis of temporal and spatial variations of bioaerosol concentrations in a high-rise egg production house in Southeastern U.S. Presented at 2012 AWMA Symposium on Air Quality Measurement Methods and Technology. April 24-26, 2012. Durham, NC.
61. Cao, Z. M. Buser, D. Whitelock, **L. Wang-Li**, Y. Zhang, C.B. Parnell. 2011. Techniques for determining particle size distribution of particulate matter: laser diffraction *vs.* electrical sensing zone. Presented at 242nd American Chemical Society (ACS) National Meeting in Denver, CO.
62. Li, Q. and **L. Wang-Li**. 2011. Particulate matter concentrations in the vicinity of an egg production facility: statistical distributions and upwind and downwind comparison. Presented at 2011ASABE international conference.
63. Ying, M., **L. Wang-Li**, and Q. Li. 2011. Backward Gaussian dispersion modeling for estimating plume-rise of air emissions from animal housing systems. Presented at 2011ASABE annual international conference.
64. Hu, D., **L. Wang-Li**, O.D. Simmons, J.J. Classen, and J.A. Osborne. 2011. Concentrations of bioaerosols in the vicinity of a commercial egg production farm in Southeast U.S. Presented at 2011ASABE annual international conference.
65. Jones, H. W., B. Y. Boroujeni and **L. Wang-Li**. 2011. Modeling dispersion of particulate matter from animal housing emissions using Gaussian dispersion modeling approach: impact of downwind sampling location and sampling height. Presented at 2011ASABE annual international conference.
66. **Wang-Li**, L. Q. Li, J.-Q. Ni, E.L Cortus, C.A. Diehl, A.J. Heber. 2011. National air emissions monitoring study-Southeast layer site: site specifics and methods. Presented at 2011ASABE annual international conference.
67. Li, Q. **L. Wang-Li**, and A.J. Heber. 2011. Impact of farm activities on air emissions from high-rise egg production houses in Southeast U.S. Presented at 2011ASABE annual international conference.
68. **Wang-Li**, Q. Li, B. W. Bogan, I. Kilic, J.-Q Ni, A.J. Heber and K. Wang. 2011. Characterization of ammonia emissions from a commercial egg production farm in Southeast U.S. Presented at 2011ASABE annual international conference.
69. Li, Q., **L. Wang-Li**, , K. Wang, B. W. Bogan, I. Kilic, J.-Q Ni and A.J. Heber. 2011. Particulate matter emissions from high-rise egg production houses in Southeast U.S. Presented at 2011ASABE annual international conference.
70. Kilic,I, A. J. Heber , K. Wang, **L. Wang-Li**, Q. Li, E. L. Cortus and B. W. Bogan. 2011. Determining long term nitrogen mass balances for two commercial layer houses. Presented at 2011ASABE annual international conference.
71. **Wang-Li**, Q. Li and Z. Liu. 2011. Gas phase ammonia and particle phase major ions in the vicinity of a layer operation farm in Southeast U.S. Presented at 2011ASABE annual international conference.
72. **Wang, L.**, Z. Cao, Q. Li, Z. Liu. 2010. Particle size distribution and concentration of total suspended particulate in layer barns. Paper No. 1009287. Presented at 2010ASABE Annual International Meeting, June 21 –24. Pittsburgh, PA.
73. **Wang, L.**, Q. Li, G. Byfield, O. D. Simmons, J. Classen. 2010. Biological characteristics of aerosols emitted from a layer operation in Southeast U.S. Paper No. 1009290. Presented at 2010ASABE Annual International Meeting, June 21 –24. Pittsburgh, PA.
74. Li, Q., **L. Wang**, Z. Liu, R.K.M. Jayanty. 2010. Major ions characterization of PM_{2.5} emitted from AFOs. Presented at 2010ASABE Annual International Meeting, June 21 –24. Pittsburgh, PA.

75. Li, Q., **L. Wang**, Z. Liu, R.K.M. Jayanty. 2010. Patterns and spatial variation of elements in PM_{2.5} emitted from AFOs. Paper No. 1008743. Presented at 2010ASABE Annual International Meeting, June 21 –24. Pittsburgh, PA.
76. Li, Q., **L. Wang**, Z. Liu. 2010. PM_{2.5} mass concentrations at commercial egg production facility and its vicinity. Paper No. 1008750. Presented at 2010ASABE Annual International Meeting. June 21 –24. Pittsburgh, PA.
77. Li, Q., **L. Wang**, Z. Liu. 2010. Influence of temperature setting of tapered element oscillating microbalance (TEOM) sampler on particulate measurements. Paper No. 1008744. Presented at 2010ASABE Annual International Meeting. June 21 –24. Pittsburgh, PA.
78. Liu, Z., **L. Wang**, Q. Li, and R.K.M. Jayanty. 2010. Measurements of ammonia gas, ammonium aerosol, and related inorganic particulate matter in vicinity of a southeast layer operation. Paper No. 1009200. Presented at 2010ASABE Annual International Meeting. June 21 –24. Pittsburgh, PA.
79. **Wang, L.**, Q. Li, Z. Liu, Z. Cao, R.K.M. Jayanty, G. Byfield, and M. Franklin. 2010. Characterization of Particulate Matter Emitted from Commercial Egg Production Facilities in Southeastern U.S. Paper#244. Presented at A&WMA International Specialty Conference: Leapfrogging Opportunities for Air Quality Improvement. May 10-14, 2010. Xi'an China.
80. Oviedo-Rondón, E.O. and **L. Wang**. 2009. Effects of Attic Inlets on broiler Performance. Presented at 2009 Poultry Science Association Annual Meeting. July 20-23, 2009. Raleigh, NC.
81. **Wang, L.**, Q. Li, Z. Liu, Z. Cao, D. B. Beasley and A. J. Heber. 2009. National Air Emission Monitoring Study: Source, Fate and Transport of Aerial Pollutants from a Layer Operation in Southeast U.S. Paper#916. Presented at 102nd A&WMA Annual Conference and Exhibition, June 16-19, Detroit, MI.
82. Liu, Z., **L. Wang**, Q. Li, and D.B. Beasley. 2009. Response of PM Characteristics to NH₃ and Other Gas Emissions at a Layer Operation in Southeast U. S. Paper No. 096416. 2009 ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
83. Liu, Z., **L. Wang**, D. B. Beasley, S. B. Shah, and P. Bloomfield. 2009. Validation and Uncertainty Analysis of an Ammonia Emission Model for Broiler Litter. Paper No. 096414. Presented at the 2009 ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
84. **Wang, L.**, Q. Li, R. K. Esch, O. D. Simmons, J. Classen, D. B. Beasley. 2009. Biological Characteristics of Aerosols Emitted from a Layer Operation in Southeast U. S. Paper No. 096358. Presented at the 2009ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
85. Li, Q., **L. Wang**, Z. Liu, D. B. Beasley, and R.K.M. Jayanty. 2009. Chemical Characterization of Particulate Matter Emitted from AFOs. Paper No. 095948. Presented at the 2009ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
86. Li, Q., **L. Wang**, Z. Liu, and D. B. Beasley. 2009. Particulate Emission from Egg Productions Facilities: Source vs. Surrounding Area. Paper No. 095949. Presented at the 2009 ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
87. Cao, Z., **L. Wang**, Z. Liu, Q. Li, and D. B. Beasley. 2009. Particle Size Distribution of Particulate Matter Emitted from a Layer Operation in Southeast U.S. Paper No. 090025. Presented at the 2009 ASABE Annual International Meeting. June 21 – June 24. Reno, Nevada.
88. Li, Q., **L. Wang**, and D. B. Beasley. 2008. Investigation of Ammonia Concentration Variations in the Vicinity of a Large Commercial Chicken Layer Farm. Presented at 2008 AWMA Symposium on Air Quality Measurement Methods and Technology. Nov. 3-6, 2008. Chapel Hill, NC.
89. **Wang, L.**, Cao, Z., Q. Li, D. B. Beasley and E.O. Oviedo-Rondón. 2008. Particle Size Distribution of Particulate Matter Emitted from a Broiler Farm: A Preliminary Study. Presented at 2008 AWMA Symposium on Air Quality Measurement Methods and Technology. Nov. 3-6. Chapel Hill, NC.
90. **Wang, L.**, E.O. Oviedo-Rondón, C.B. Parnell, D.B. Beasley, and J. Small. 2008. Effect of ozone application on particulate matter concentrations in broiler houses. Paper No. 083973. Presented at the 2008ASABE Annual International Meeting. June 29 – July 2. Providence, Rhode Island.
91. Liu, Z., **L. Wang**, D. B. Beasley, and S. Shah. 2008. Mass transfer coefficient of ammonia emissions from broiler litter. Paper No. 084368. Presented at the 2008ASABE Annual International Meeting. June 29 – July 2. Providence, Rhode Island.
92. Li, Q., **L. Wang**, R. Kamens and Z. Liu. 2008. Could ozonation technology really work for mitigating air emissions from AFOs? A short review and a new study. Paper No. 084017. Presented at the 2008 ASABE Annual International Meeting. June 29 – July 2. Providence, Rhode Island.

93. **Wang, L.**, E.O. Oviedo-Rondón, J. Small, Q. Li and Z. Liu. 2008. Ozone application for mitigating ammonia emission from poultry manure: field and laboratory evaluations. In the proceedings of Mitigating Air Emissions from Animal Feeding Operations Conference. May 19-21, 2008 Des Moines, Iowa.
94. Small, J.H., E.O. Oviedo-Rondón, **L. Wang**, Z. Liu, B. Sheldon, G.Havenstein, and M. Williams. 2008. Effects of air ozonation on commercial broiler houses. International Poultry Scientific Forum. Atlanta, GA.
95. **Wang, L.**, E. Oviedo, John Small, Z. Liu, R. Munilla and D.B. Beasley. 2007. Field evaluation of ozonation technology for ammonia control in broiler houses. Paper No. 074135. Presented at the 2007ASABE Annual International Meeting. Minneapolis, MN.
96. Liu, Z., **L. Wang**, D.B. Beasley, and E. Oviedo. 2007. Modeling ammonia emissions from broiler litter with a dynamic flow-through chamber system. Paper No. 074090. Presented at the 2007 ASABE Annual International Meeting. Minneapolis, MN.
97. **Wang, L.**, Z. Liu, D.B. Beasley, R. Munilla, G.R. Baughman, and E. Oviedo. 2006. Measuring ammonia emissions from broiler litter. Paper No.064189. Presented at the 2006 ASABE Annual International Meeting, Portland, OR.
98. Liu, Z., **L. Wang**, D.B. Beasley. 2006. A review of emission models of ammonia released from broiler houses. Paper No.064101. Presented at the 2006 ASABE Annual International Meeting, Portland, OR.
99. Liu, Z., **L. Wang**, D.B. Beasley, E. Oviedo, R. Munilla, G.R. Baughman and C.M. Williams. 2006. Effect of litter moisture content on ammonia emissions from broiler operations. In *Proceedings of the Workshop on Agricultural Air Quality: State of the Science*. June5-8, 2006. Potomac, MD.
- 100.**Wang, L.**, C.B. Parnell, D.B. Parker, R.E. Lacey, B.W. Shaw. 2005. Determination of Odor Emission Rates from Cattle Feedlots Using CALPUFF and ISCST3 Models. Paper No.054047. Presented at the 2005ASAE Annual International Meeting, Tampa, FL.
- 101.**Wang, L.**, C.B. Parnell, B.W. Shaw, R.E. Lacey, M.D. Buser, and S. C. Capareda. 2005. Particle Size Distribution in the Downwind Plume and Its Impact on Ambient PM₁₀ Monitoring for Agricultural Emissions. Paper No.054046. Presented at the 2005ASAE Annual International Meeting, Tampa, FL.
- 102.Parnell, C.B., S.C. Capareda, J.D. Wanjura, M.D. Buser, **L. Wang**, B.W. Shaw, R.E. Lacey, and S. Molloy. 2005. Impacts of Regulating PM coarse Emissions from Agricultural Operations. Paper No.054009. Presented at the 2005ASAE Annual International Meeting, Tampa, FL.
- 103.**Wang, L.**, C.B. Parnell, B.W. Shaw, R.E. Lacey and S. C. Capareda. 2005. Dry Deposition of Particulate Matter Emitted from Cotton Gins – Particle Size Distribution of Particulate Matter in the Downwind Plume. In *Proceedings of 2005 Beltwide Cotton Production Conferences*, National Cotton Council, New Orleans, LA.
- 104.Buser, M.D., D.P. Whitelock, G.A. Holt, C.B. Armijo, and **L. Wang**. 2005. Preliminary Evaluation of the Baffle-Type Pre-Separator in Terms of Baffle Location, Critical Air Velocity, and Loading Rate. In *Proceedings of 2005 Beltwide Cotton Production Conferences*, National Cotton Council, New Orleans, LA.
- 105.**Wang, L.**, C.B. Parnell, D.B. Parker, R.E. Lacey, B.W. Shaw and J.D. Wanjura. 2004. Engineering Basis for Odor Dispersion Modeling - Part I: Preliminary Evaluation of ISCST3 for Predicting Downwind Odors. Presented at the 2004 CIGR International Conference in Beijing. Paper No.30-219A., Beijing, China.
- 106.**Wang, L.**, J. D. Wanjura, W. B. Faulkner, C. B. Parnell, B.W. Shaw, R.E. Lacey, M.D. Buser, and S. C. Capareda. 2004. Study of "Baffle Type Pre-separator Plus Cyclone" Abatement Systems For Cotton Gins. ASAE Paper No.044017. Presented at the 2004 ASAE /CSAE Annual International Meeting, Ottawa, Canada.
- 107.Shaw, B.W., R.E. Lacey, S.C. Capareda, C.B. Parnell, J.D. Wanjura, **L. Wang** and W.B. Faulkner. 2004. Application of the National Ambient Air Quality Standards (NAAQS) in Urban Versus Rural Environments. Presented at the 2004 ASAE /CSAE Annual International Meeting, Ottawa, Canada.
- 108.**Wang, L.**, C. B. Parnell, B.W. Shaw, R.E. Lacey, M.D. Buser, L.B. Goodrich and S. C Capareda. 2004. A Theoretical Approach to Correcting PM₁₀ Over-sampling Problem for Agricultural Dust. In *Proceedings of 2004 Beltwide Cotton Production Conferences*, National Cotton Council, San. Antonio, TX.
- 109.Capareda, S. C., **L. Wang**, C. B. Parnell, and B.W. Shaw. 2004. Particle Size Distributions of Particulate Matter Emitted by Agricultural Operations – Impacts on FRM PM₁₀ and PM_{2.5} Concentration Measurement. In *Proceedings of 2004 Beltwide Cotton Production Conferences*, National Cotton Council, San. Antonio, TX.

110. Shaw, B. W, R.E. Lacey, S. C Capareda, C. B. Parnell, J. D. Wanjura and **L. Wang**. 2004. Application of the National Ambient Air Quality Standards (NAAQS) in Urban Versus Rural Environments. In *Proceedings of 2004 Beltwide Cotton Production Conferences*, National Cotton Council, San. Antonio, TX.
111. **Wang, L.**, J. D. Wanjura, C. B Parnell, R.E Lacy and B. W. Shaw. 2003. Performance Characteristics of Low-Volume PM₁₀ Inlet and TEOM Continuous PM Sampler. ASAE Paper No. 034118. Presented at the 2003 ASAE Annual International Meeting, Las Vegas, Nevada.
112. **Wang, L.**, C. B. Parnell, R.E. Lacy and B. W. Shaw, 2003. Analysis of Cyclone Collection Efficiency. ASAE Paper No. 034114. Presented at the 2003 ASAE Annual International Meeting, Las Vegas, Nevada.
113. **Wang, L.**, J. D. Wanjura, T.E. Stiggins, C. B. Parnell, R.E. Lacy and B. W. Shaw. 2003. Evaluation of PM₁₀ Pre-separator for Low-volume Sampling. In *Proceedings of 2003 Beltwide Cotton Production Conferences*, National Cotton Council, Nashville, TN.
114. Parnell, C. B., B. W. Shaw, **L. Wang**, S. C. Capareda. 2003. Particle Size Distributions of Emitted by Agricultural Operations – Impacts on FRM PM₁₀ and PM_{2.5} Concentration Measurements. Paper presented for selected EPA staff during the Third International Conference on Air Pollution from Agricultural Operations, Sheraton Imperial Hotel and Convention Center, Research Triangle Park, North Carolina, October 12-15, 2003, Sponsored by the American Society of Agricultural Engineers (ASAE), St Joseph, MI.
115. **Wang, L.**, M. D. Buser, C. B. Parnell and B. W. Shaw. 2002. Effect of Air Density on Cyclone Performance and System Design. ASAE Paper No. 024216. Presented at the 2002 ASAE Annual International Meeting/CIGR XVth World Congress, Chicago, Illinois.
116. **Wang, L.**, C. B. Parnell and B. W. Shaw. 2002. Theoretical Study of the Particle Collection Mechanism in the Outer Vortex of a Cyclone. In *Proceedings of 2002 Beltwide Cotton Production Conferences*, National Cotton Council, Atlanta, GA.
117. **Wang, L.**, C. B. Parnell and B. W. Shaw. 2001. A Theoretical Approach for Predicting Number of Turns and Cyclone Pressure Drop. ASAE Paper No. 014009. Presented at the 2001 ASAE Annual International Meeting, Sacramento, CA.
118. **Wang, L.**, C. B. Parnell and B. W. Shaw. 2001. Analysis of Cyclone Pressure Drop. In *Proceedings of 2001 Beltwide Cotton Production Conferences*, National Cotton Council, Anaheim, CA.
119. **Wang, L.**, C. B. Parnell and B. W. Shaw. 2000. 1D2D, 1D3D, 2D2D Cyclone Fractional Efficiency Curves for Fine Dust. In *Proceedings of 2000 Beltwide Cotton Production Conferences*, National Cotton Council, San Antonio, TX.
120. **Wang, L.**, C. B. Parnell and B. W. Shaw. 1999. Performance Characteristics for the 1D2D, 2D2D, 1D3D and Barrel Cyclones. ASAE Paper No.994195. Presented at the 1999 ASAE Annual International Meeting, Toronto, Canada.

Invited Speeches & Seminars:

1. **Wang-Li, L.** 2021. *NexGen SWINE*: Next Generation Swine Production for Resiliency and Sustainability. Presented at 2021 CALS Emerging Research Showcase Future-Ready Farms. November 11, 2021.
2. **Wang-Li, L.** 2021. Food Animal Production and Air Quality. A lecture for Students at West Roman Middle School, May 6, 2021
3. **Wang-Li, L.** 2021. Environmental Control of Swine Production Houses: Ventilation Fundamentals. Presented at 2021 International Workshop on Swine Production. October 15, 2021, Jinju South Korea. Gyeongnam Agricultural Meister College.
4. **Wang Li, Li.** Layer Farm Environmental Management: Air Emission Characteristics. Invited talk at 2021 Georgia Layer Conference. September 27, 2021.
5. **Wang-Li, L.** Air Quality and Animal Production Systems Engineering for Enhancement of Sustainability. Invited talk at S1074 Multi-state Project Annual Meeting. November 20, 2020.
6. **Wang-Li, L.** Poultry Engineering Chamber Complex for Animal Environment, Air Quality and Welfare Studies. Invited Expert Talk at 5th International Workshop on Precision Environmental Control (V WIAP), State University of Campinas (UNICAMP), Brazil, November 4-9, 2019.
7. **Wang-Li, L.** Role of Agriculture in Air Pollution. Invited Expert Talk at 2nd Annual UCSF Fresno Symposium on Air Pollution and Climate Change, April 8, 2017. Fresno, CA.

8. **Wang-Li, L.** “Ambient Air Quality Monitoring and Air Emission Measurements in the United States: Technologies & Regulations”. Invited Expert Talk at *2014 International Conference on Environment and Energy* (ICEE-2014), Hyderabad, India. December 15-17, 2014.
9. **Wang-Li, L.** “Contributions of precursor gas emissions to the formation of secondary atmospheric PM_{2.5}: ammonia gas and ammonium aerosols”. Invited presentation at the *5th International Conference on Environmental Technology and Knowledge Transfer*. Hefei, China. May 15-16, 2014.
10. **Wang-Li, L.** “Contributions of poultry ammonia emissions to the formation of secondary inorganic PM_{2.5} and possible haze problem”. Invited seminar at the Institute of Animal Science, Chinese Academy of Agricultural Sciences, Beijing, China. May 14, 2014.
11. **Wang-Li, L.** “Ammonia emission inventory development and formation of secondary aerosols”. Invited lectures at Shanghai Academy of Environmental Sciences, Shanghai, China. October 14-17, 2013.
12. **Wang-Li, L.** “The U.S. model of intensive poultry production systems: current status and challenges”. Invited speech at a poultry production workshop jointly hosted by the Institute of Animal Science, Chinese Academy of Agricultural Science (IAS-CAAS) and Hubei Academy of Agricultural Science, Institute of Animal Science and Veterinary Medicine. Wuhan, China. October 25, 2013.
13. **Wang-Li, L.** “Techniques for air quality monitoring and air emission measurements: application limitations in AFO environments”. Invited lecture at Zhejiang University, Hangzhou, China. May 28, 2012.
14. **Wang-Li, L.** “Energy efficiency and environmental management for broiler production systems”. Invited keynote speech at “*China Broiler Production System Technology Forum*” hosted by Anhui Agricultural University. Hefei, China. May 24, 2012.
15. **Wang-Li, L.** “Challenges in measuring mass concentration of particulate matter under different source characteristics and environmental conditions”. Invited presentation at the *4th International Conference on Environmental Technology and Knowledge Transfer*. Hefei, China. May 24-25, 2012.
16. **Wang-Li, L.** “Vertically integrated U.S. broiler industry: grow-out housing system design, management practices and environmental impacts”. Invited keynote speech at “*China Broiler Production System-Poultry Feeding Operation Environmental Control Workshop*”, Nanchang, China. June 16, 2011.
17. **Wang-Li, L.** “Impacts of broiler grow-out housing design and management on air quality and productivity”. Invited keynote speech at “*Hubei Forum on Broiler Production Technology*”, Suizhou, China. June 19, 2011.
18. **Wang-Li, L.** “Agriculture air quality research in action”. Invited presentation to a group of 25 visitors from China Agricultural University. College of Agriculture and Life Science, NCSU. November 3, 2011.
19. **Wang-Li, L.** et al. “Techniques for determining particle size distribution of particulate matter: laser diffraction *vs.* electrical sensing zone”. Invited presentation at the 242nd American Chemical Society (ACS) National Meeting in Denver, CO. August 30, 2011.
20. **Wang, L.** “U.S. Poultry Operation System and Associated Environmental Management Practices: Current Status and Future Direction”. Invited seminar at the Institute of Animal Science, Chinese Academy of Agricultural Sciences, China. July 14, 2010.
21. **Wang, L.** “Air Quality Monitoring and Air Emission Measurements in U.S.-Technologies and Regulations”. Invited lecture at Fudan University, Shanghai, China. May 20, 2010.
22. **Wang, L.** “Air Quality Research in the U.S.-Monitoring, Modeling and Mitigation” Invited lecture at Shanghai Jiaotong University, Shanghai, China. May 19, 2010.
23. **Wang, L.** “Agricultural Air Quality Measurements in U.S.-Current Status and Future Direction”. Invited lecture at Huazhong Agricultural University, Wuhan, China. May 17, 2010.
24. **Wang, L.** “Air emission from AFOs: current studies and future directions”. Invited seminar at NCDENR Air Quality Division. October 12, 2009.
25. **Wang, L.** “Agricultural air quality in action”. Invited presentation for the 4th China Environment Forum of Chinese Association for Science and Technology (CAST)-NC Chapter. February 20, 2009.
26. **Wang, L.** “Agricultural Air Quality: Current Status and Future Needs. Invited presentation, seminar series of NCSU Student Chapter of the Air & Waste Management Association, November 29, 2006.
27. **Wang, L.** “Challenges and Opportunities in Agricultural Air Quality Engineering” to invited presentation to NCSU ASABE Student Club, September 22, 2005