

Linda S. Lee

Department of Agronomy, Purdue University

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Education University of Florida 9/77 - 12/83 B.S. (Chemistry)
University of Florida 8/86 - 4/89 M.S. (Environmental Engineering Sciences)
University of Florida 1/90 - 6/93 Ph.D. (Soil Chem./Contaminant Hydrology)

Academic Appointments

2011- 2018	Associate Head, Department of Agronomy
2011-present	Affiliate Faculty, Division of Environmental and Ecological Engineering
2006 - present	Head, Ecological Sciences & Engineering Interdisciplinary Graduate Program
2005 - 2010	Associate Director, Discovery Park Center for the Environment
2006 - 2010	Pre-Environmental Studies Program, Chair (2006-07AY); Co-Chair (2007-09AY)
2001 - present	Professor, Purdue University, Department of Agronomy
1997 - 2001	Associate Professor, Purdue University, Department of Agronomy
1993 - 1997	Assistant Professor, Purdue University, Department of Agronomy
1984 - 1993	Chemist/Senior Chemist, University of Florida, Soil Science Department

Membership in Academic, Professional, and Scholarly Societies & Related Activities

American Chemical Society (ACS); American Society of Agronomy (ASA); Soil Science Society of America (SSSA); Society of Environ. Toxicology & Chemistry (SETAC); American Association for the Advancement of Science (AAAS); The Advancement of Sound Science Coalition (TASSC); Ecological Soil Screening Task Group on Soil Chemistry (Eco-SSLs); Indiana Water Resources Research Center Faculty and External Advisory Committees; National Council of Science and the Environment (NCSE); Council of Deans and Director (CEDD); Association of Environ. Engineering and Science Professors (AAESP); EPA Peer Consultation PFOA Panel for Alabama Dow Site Evaluation; EPA Peer Consultation PFOA Panel for the DuPont Washington Works Site Evaluation; Perfluorotelomer Biodegradation Supplemental Environ. Project External Evaluation Team; NRC Report Review Team.

Editorial Boards/National Committees

Associate Editor - Vadose Zone J. (2002-7) and J. Environ. Qual. (2003-6); W45 Mechanisms & Mitigation of Agrochemical Impacts on Human and Environmental Health (2000-5); W82/W1082/W2082 Evaluating the Physical and Biological Availability of Pesticides and Pharmaceuticals in Agricultural Contexts (1994-current); W2170/W3170 Beneficial Ruses of Residuals and Reclaimed Water: Impact on soil ecosystem and human health (2009-2013); Livestock & Poultry Pharm. Expert Team (2007-09).

Awards and Honors

Chemist Certification, American Chemical Society (1984); Frederick B. Smith Scholarship, University of Florida (1991); Certificate of Merit, American Chemical Society (1991); University of Florida Sigma Xi Graduate Student Research Award (1992); Award for Excellence in Graduate Studies, Soil & Water Science, University of Florida (1993); Emil Truog Award for Best Doctoral Dissertation, Soil Science Society of America (1994); Gamma Sigma Delta Research Award of Merit (2001); Purdue University Faculty Scholar (2001-2006); SSAJ Citation for Excellence in Manuscript Review (2003); ASA Fellow (2003); SSSA Fellow (2004); Outstanding Assoc. Editor for J. of Environ. Quality (2004); Gamma Sigma Delta Award of Merit in Research & Teaching (2005); Outstanding Graduate Educator in Agronomy (2008, 2009, 2010); Purdue Graduate Student Government Faculty Mentor Award (2012); ES&T Excellence in Review Award (2014); COA Outstanding Graduate Mentor (2014), COA Outstanding Graduate Educator (2015); College of Agriculture's First Unsung Diversity Hero (2016); Purdue Seed for Success (2017, 2018, 2019).

Publication Summary (*since 1988*): 101 Refereed papers; 5 in Review; 8 Book Chapters; 29 proceedings, reports, commentaries; >175 Research Abstracts

My Biblio.: <http://www.ncbi.nlm.nih.gov/sites/mvncbi/1B5cTW8Stxw5E/bibliography/47984053/public/>

Graduate Student Summary

Previous Major or co-Major Graduate Advisees: 18 PhD, 6 MS-Thesis, & 5 MS-nonthesis

Current Major Graduate Advisees: 3 PhD

Graduate Committee Member: > 70 MS and PhD graduates students

Undergraduate/High School Research Advisor: 20 Previous Undergraduate Research Advisees, 2 current

Postdoctoral (PD) Associates and Visiting Scholars (VS) Sponsored: (18 previous)

Selected Referred Journal Papers (* denotes graduate student advisee)

- (1) Choi, Y., R. Kim Lazcano*, P. Yousefi*, H. Trim and L.S. Lee. 2019. Perfluoroalkyl Acid Characterization in U.S. Municipal Organic Solid Waste Composts, *Environ. Sci. Technol. Letters*.
<https://doi.org/10.1021/acs.estlett.9b00280>
- (2) Kim Lazcano*, R., C. de Perre, M.L. Mashtare and L.S. Lee. 2019. Per- and Polyfluoroalkyl Substances in Commercially Available Biosolid-Based Products: The Effect of Treatment Processes, *Water Environ. Research*, in press.
- (3) Cannon, J., R.M. Foguth, R. Wesley Flynn; Chloe de Perre; L.S. Lee and M.S. Sepulveda. 2019. Developmental exposure to perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) selectively decreases brain dopamine levels in northern leopard frogs. *Toxicology and Applied Pharmacology*,
<https://doi.org/10.1016/j.taap.2019.114623>
- (4) Chen, H., Y. Choi, and L.S. Lee. 2018. Sorption, Aerobic Biodegradation and Oxidation Potential of PFOS Alternatives Chlorinated Polyfluoroalkyl Ether Sulfonic Acids. *Environ. Sci. Technol.*, 52(17):9827-9834.
- (5) Hoover, G., M. Chislock, B. Tornabene, S. Guffey, Y. Choi, C. de Perre, J. Hoverman, L.S. Lee, and M. Sepulveda. 2017. Uptake and depuration of four perfluoroalkyl acids (PFAAs) in northern leopard frog *Rana pipiens* tadpoles, *Environ. Sci. Technol. Letters*, 10:339-403.
- (6) Park*, S., C. de Perre, and L.S. Lee. 2017. Alternate reductants with VB12 to transform C8 and C6 Perfluoroalkyl Sulfonates: Limitations and insights into isomer-specific transformation rates, products and pathways. *Environ. Sci. Technol.* 51 (23):13869–13877. doi: 10.1021/acs.est.7b03744
- (7) Park*, S., J. Zenobio*, and L.S. Lee. 2018. Perfluorooctane sulfonate (PFOS) loss with Pd⁰/nFe⁰ nanoparticles: adsorption and Fe-complexation, not transformation, *J. Hazardous Materials*. 342:20-28.
- (8) Choi*, Y. and L.S. Lee. 2017. Partitioning behavior of bisphenol alternatives BPS and BPAF compared to BPA, *Environ. Sci. Technol.*, 51, 3725–3732.
- (9) Zhang, L., L.S. Lee, J. Nie, and J. Liu. 2016. Kinetic Analysis of Aerobic Biotransformation Pathways of a Perfluorooctane Sulfonate (PFOS) Precursor in Distinctly Different Soils. *Environ. Pollut.*, 229:158-167.
- (10) Royer*, L., L.S. Lee, M. Russell, L. Nies, and R. Turco. 2015. Microbial transformation of 8:2 fluorotelomer acrylate and methacrylate in aerobic soils. *Chemosphere*, 129:54-61.
- (11) Dasu*, K., L.S. Lee, R.F. Turco, and L. Nies. 2013. Aerobic Biodegradation of 8:2 Fluorotelomer Stearate Monoester and 8:2 Fluorotelomer Citrate Triester in Forest Soil. *Chemosphere*, 91, 399-405.
- (12) Dasu*, K., J. Liu* and L.S. Lee. 2012. Aerobic Soil Biodegradation of 8:2 Fluorotelomer Stearate Monoester Degradation. *Environ. Sci. Technol.*, 46:3831-36, DOI: 10.1021/es203978g.
- (13) Gall*, H., S. Sassman*, L.S. Lee, and C. Jafvert. 2011. Hormone Chemograph Behavior in a Tile Drained Agroecosystem Receiving Animal Wastes. *Environ. Sci. Technol.*, 45:8755-8764.
- (14) Mashtare, M., B. Khan, and L.S. Lee. 2010. Evaluating stereoselective sorption by soils of 17 α -estradiol and 17 β -estradiol *Chemosphere*, 82:847–852.
- (15) Dasu*, K., L.A. Royer*, J. Liu and L.S. Lee. 2010. Hydrolysis of Fluorotelomer Compounds Leading to Fluorotelomer Alcohol Production During Solvent Extractions of Soils. *Chemosphere*, 81:911-917.
- (16) Carmosini*, N. and L.S. Lee. 2008. Partitioning of Fluorotelomer Alcohols to Different Sources of Dissolved Organic Carbon. *Environ. Sci. Technol.* 42: 6550-6556.
- (17) Liu*, J., L.S. Lee, L.F. Nies, C.H. Nakatsu and R.F. Turco. 2007. Biotransformation of 8:2 Fluorotelomer Alcohol in Soil and by Soil Bacteria Isolates. *Environ. Sci. Technol.* 2007; 41(23); 8024-8030. DOI: 10.1021/es0708722.
- (18) Liu*, J. and L.S. Lee. 2007. Effect of Perfluorocarbon Chain Length on Solubility and Sorption by Soils of Fluorotelomer Alcohols. *Environ. Sci. Technol.* 41(15); 5357-5362.
- (19) Liu*, J. and L.S. Lee. 2005. Solubility and Sorption by Soils of 8:2 Fluorotelomer Alcohol in Water and Cosolvent Systems. *Environ. Sci. Technol.* 39:7535-7540.