

Linda S. Lee

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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

2021- present	Professor, Division of Environmental Ecological Engineering
2011 – 2018	Associate Head, Department of Agronomy
2006 – present	Head, Ecological Sciences & Engineering Interdisciplinary Graduate Program
2011 - present	Courtesy Faculty appointment, Division of Environmental Ecological Engineering
2013 - present	Purdue Center for the Environment Executive Board
2010 - 2017	Purdue Water Community Executive Committee
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 & Water Science Department

Research advisory roles: Previous Major or co-Major Graduate Advisees: 19 PhD, 6 MS-Thesis, & 7 MS-nonthesis; Current Major Graduate Advisees: 4 PhD, 1 MS-thesis; Undergraduate Research Advisor: 22 Previous Undergraduate Research Advisees; Current 5 undergraduate research assistants; Postdoctoral Assoc. and Visiting Scientists sponsored: 17 previous one current

Five Recent and Representative Journal Papers (* denotes graduate student advisee; Complete List: <http://www.ncbi.nlm.nih.gov/sites/myncbi/1B5eTW8Stxw5E/bibliography/47984053/public/>)

Flynn, R.; Hoskins, T.; Iacchetta, M.; De Perre, C.; Lee, L.S.; Hoverman, J.; Sepulveda, M.S.

2021. Dietary exposure and accumulation of per- and polyfluoroalkyl substances alters growth and reduces body condition of post-metamorphic salamanders. *Sci. of the Total Environ.* 765:142730. <https://doi.org/10.1016/j.scitotenv.2020.142730>

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. <https://doi.org/10.1021/acs.est.8b02913>

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>

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*, <https://doi.org/10.1002/wer.1174> WER paper of the year.

Choi*, Y. and L.S. Lee. 2017. Aerobic soil biodegradation of bisphenol A (BPA) alternatives bisphenol S and bisphenol AF compared to BPA. *Environ. Sci. Technol.*, 51(23):13698-13704. <https://doi:10.1021/acs.est.7b03889>

Expert Services Associated with Per- and Polyfluoroalkyl substances (PFAS): EPA Peer Consultation PFOA Panel for Alabama Dow Site Evaluation (2008); EPA Peer Consultation PFOA Panel for the DuPont Washington Works Site Evaluation (2009); WERF/EPA Supplemental Scientist and Board Member for addressing Trace Organic Chemicals in Biosolids-Amended Soils; Perfluorotelomer Biodegradation Supplemental Environmental Project External Evaluation Team (2010); Expert Reviewer for CA Proposed Basin Plan Amendment to Adopt Total Maximum Daily Loads for Toxicity and Pesticides in the Santa

Maria Watershed (2012); Expert Peer Reviewer for the Proposed Adoption of Carpet and Rugs Containing Perfluoroalkyl or Polyfluoroalkyl Substances as a Priority Product (2019); Expert Peer Reviewer for Product – Chemical Profile for Treatments Containing Perfluoroalkyl or Polyfluoroalkyl Substances for Use on Converted Textiles or Leathers (2020); National Biosolids Data Project Advisor Team (2020-2021); Expert Peer Reviewer for Product- Chemical Profile for Food Packaging Containing Perfluoroalkyl or Polyfluoroalkyl Substances (2021).

Course Development: Developed two courses that is part of graduate plans of study in both agriculture and engineering as is taken by students from a variety of discipline across the university: AGRY/NRES/EEE385 Environmental Soil Chemistry is an upper level introductory course with 3 lectures and a 3-h wet lab each week that covers environmental soil chemistry concepts in the framework most applicable to metal, nutrient, and organic chemical contamination of soil and water resources. Students are empowered with knowledge and both semi-quantitative and quantitative skills in the fundamental properties and processes responsible for the environmental fate of contaminants in the soil-water environment with emphasis on soil and solution chemistry. The intended audience includes students in an environmental science field that may not have strong chemistry/math backgrounds. AGRY/EEE544 Environmental Organic Chemistry focuses on the fundamental properties and processes responsible for the environmental fate of organic contaminants in aqueous and nonaqueous-phase liquids (e.g., fuels, chlorinated solvents, industrial and manufacturing residuals), and soils. Both conceptual and theoretical aspects are covered as well as estimation, correlation, and measurement techniques.

Patents: Activated carbon supported Ni⁰Fe⁰ nanoparticles for reductive transformation of perfluoroalkyl-containing compounds. EFS ID#30188706; Application #62550265. First results were published in Zenobio, J.E., Modiri-Gharehveran, M., Perre, Chloe, Vecitis, C.D., Lee, L.S. 2020. Rates and Products of Reductive Transformation of Perfluorooctanesulfonate by nNiFe⁰-Activated Carbon. *J. Haz. Mat.* <https://doi.org/10.1016/j.jhazmat.2020.122782>. Editor-selected paper of the year in 2020.

Current Related Funding Award Examples: EPA National Priority (No. G20B113019085) focused on evaluating PFAS occurrence and fate in rural water supplies and agricultural operations to inform management strategies, \$2.3M, Lee (PI). EPA-STAR (No. G18B112718486) focused on developing tools to decrease PFAS in municipal wastewater effluent and minimize release from land-applied biosolids, \$1M, Lee (PI). NIH grant focused on testing the hypothesis that species-specific responses to per- and polyfluoroalkyl substances (PFAS)-induced dopaminergic (DA) neurodegeneration will advance understanding of the biology of Parkinson's disease (PD). Lee (co-PI). Michigan DEQ grant focused on quantifying the distribution, movement, and ecological risk of PFAS in an Impacted Wetland Ecosystem, Lee (co-PI). DOD SERDP-2626 grant focused on determining the Amphibian PFAS Toxicity Reference Values for use in Ecological Risk Assessment at Aqueous Film Forming Foam Sites, Lee (co-PI).

Related Conference Leadership Role Examples: ACS 250th National Meetings, Organizer and Presider of *Reclamation, Remediation, Restoration: Novel Approaches to Environmental Challenges*, 2-day session, Boston, MA, Aug. 16-20, 2015. ACS 252nd National Meetings, Session Chair of *Poly- and Perfluoroalkyl Substances: Environ. Behavior & Pollution Control*, 2-d session, April 21-22, 2016, Philadelphia, PA. ACS 253rd National Meetings, Organizer and Presider of *Poly& Perfluoroalkyl Substances: Where, What, When, Why, Who & How*, 2-d session, San Francisco, CA, 2-4 April 5-6, 2017. SETAC North America 37th Annual Meeting/7th SETAC World Congress, Organizer and Presider of *Recent Advances and Trends in Perfluorochemical Research*, Nov. 6-10, 2016, Orlando, FL. SETAC North America 40th Annual Meeting, Organizer and Presider of *Recent Advances on the Analytical Chemistry, Fate, Risks, and Mitigation of PFASs from AFFF-impacted Contamination*, Toronto, CN.