

Curriculum Vitae

Wen-Yee Lee, Ph.D.

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Summary - In my post-tenure career (2009-present), I continue to maintain active teaching, research and service activities. I have successfully received six external and six internal grants as principal (PI) or co-principal (co-PI) investigator with a total of over 14 million dollars in grant funding. I have published 19 peer-reviewed papers, and 2 patents. I have mentored 11 doctoral students (8 as chair and 3 as co-chair), 14 MS students, 32 undergraduate students (27 Underrepresented minority), and 6 high school students. We have produced 71 oral and poster presentations and I was also invited to give 14 invited seminars. I have served on twenty-seven student directed research, thesis and dissertations committee as chair and member, and on over 20 committees at the Departmental, College, and University Levels.

EDUCATION

2001 – 2002	Postdoctoral Scientist, Connecticut Agricultural Experiment Station, New Haven, CT, Funded by US Environmental Protection Agency.
2000	Ph. D. Environmental Science and Engineering University of Texas at El Paso (UTEP), El Paso, Texas Dissertation: Environmental Applications of Chiral HPLC and Development of Chiral Stationary Phases
1995	M.S. Chemistry, UTEP, El Paso, Texas Thesis: Synthesis and Applications of <i>Trans</i> -2-(1-methyl-1-phenylethyl)cyclohexyl Derivatives
1985	B.S. Chemistry, National Taiwan Normal University, Taipei, Taiwan Thesis: The Catalytic Effect of Crown Ether in the Reduction of Nitrobenzene

EXPERIENCE

2022- present	Professor, Department of Chemistry, UTEP, El Paso, TX
2009- 2022	Associate Professor, Department of Chemistry, UTEP, El Paso, TX
2003 - 2009	Assistant Professor, Department of Chemistry, UTEP, El Paso, TX
1998 - 2000	Assistant Instructor, Department of Chemistry, UTEP Taught Chem 1306; Chem 2324
1998 - 2000	Laboratory Coordinator, UTEP Directed lab waste disposal and safety training
1994 - 1998	Research Assistant, Department of Chemistry, UTEP Faculty Mentor: Dr. James Salvador Project – Environmental Applications of Chiral HPLC and Development of Chiral Stationary Phases Synthesis and Applications of <i>Trans</i> -2-(1-methyl-1-phenylethyl)cyclohexyl Derivatives

1985-1993

Chemistry Teacher, Municipal Chien-Chen Senior High School,
Kaohsiung, Taiwan

AFFILIATION

- American Chemical Society
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
- Society for Basic Urologic Research (SBUR)
- Society of Environmental Toxicology and Chemistry (SETAC)
- Water Environment Federation (WEF)

AWARDS

- UTEP BUILDing SCHOLARS Mentorship Award, 2021
- Summer sabbatical program, BUILDing SCHOLARS, UTEP, Summer 2018
- UTEP Interdisciplinary (IDR) Enhancement Program Award – Round VII- IDR Fellow to the Offices of the Provost and Research and Sponsored Projects, 2016
- NSF, Faculty and Student Teams (FaST) Program, 2009 and 2010.
- Distinguished Achievement Award for Teaching, College of Science, UTEP, May 2009

Travel Awards:

- NSF REU Chemistry Leadership Group (for Amanda Parra, undergraduate), Mentor Support Travel Award, Spring 2011 National American Chemical Society Meeting, Anaheim, CA.
- COACH Travel Award, 239 ACS National Meetings, San Francisco, CA, March, 2010.
- Society of Toxicology (SOT) Travel Award for Advisors/Undergraduate Education Program, March 2008, SOT Annual Meeting, Seattle, WA.
- LSAMP (Louis Stokes Alliances for Minority Participation Program) Scholar Travel Award, 231st ACS National Meetings, March 2006, Atlanta, GA.
- COACH Travel Award, 228th ACS National Meetings, Philadelphia, PA, August, 2004.
- Advance Travel Award, 2005 Faculty Horizons Workshop, Baltimore, MD, July, 2005.
- COACH Travel Award, 229th ACS National Meetings, San Diego, CA, March 2005.
- North American Minority Students and Mentors in Environmental Toxicology and Chemistry, Society of Environmental Toxicology and Chemistry (SETAC) Program, November, 2003.

Awards prior to rank:

- Outstanding Graduate Research Award, **2000**, Environmental Science and Engineering Program, UTEP.
- Outstanding Assistant Instructor, Department of Chemistry, **1999**, UTEP.

GRANT AWARDS

Active Grants

- 1) NIH, 1SC1CA245675
Project: Urinary biomarkers for prostate cancer diagnosis and risk assessment
Awarded: \$ 1,505,920
Period: 09/19/2019 – 04/30/2024

Role: PI

- 2) NIH, 2U54MD007592-26
Project: Border Biomedical Research Center- Research Project 2
Awarded: \$19,198,789/\$2,828,539 (Research Project 2).
Period: 04/01/2019 – 02/29/2024
Role: co-PI. PI: Dr. Robert Kirken, Biological Sciences
- 3) NIH/NIGMS.
Project: G-RISE at the University of Texas at El Paso
Budget Requested: \$542,000 annual; Total Anticipated Project Amount: \$ 2,598,666
Period: 05/01/2022 – 04/30/2027
Role: co-PI; PI: Dr. Renato Aguilera, Biological Sciences
- 4) NIH/NIGMS.
Project: U-RISE at the University of Texas at El Paso
Budget Requested: \$810,000 annual; Total Anticipated Project Amount: \$ 3,840,640
Period: 04/01/2022 – 03/31/2027
Role: co-PI; PI: Dr. Renato Aguilera, Biological Sciences

Completed Grants

- 5) NIH, 2R25GM069621-14
Project: RISE Option IV: Research Scholars Program
Awarded: \$4,255,303
Period: 06/01/2017 – 05/31/2022
Role: co-PI. PI: Dr. Renato Aguilera, Biological Sciences
- 6) NIH/ BBRC Pilot Grant
Project: Utilizing Machine Learning for Prostate Cancer Diagnosis in Hispanic Patients
Budget Requested: \$ 60,400
Period: 02/01/2021 – 01/31/2022
Role: co-PI; PI: Dr. Michael Pokojovy, Mathematical Sciences.
- 7) Edward N. and Margaret G. Marsh Foundation
Project: A study of the Environmental and Genetic Factors Affecting Antibiotic Resistance of Bacteria from the Rio Grande River in the El Paso, TX-Cd. Juarez, Mexico
Awarded: \$ 110,537
Period: 01/01/2017 – 12/31/2017
Role: co-PI. PI: Dr. Delfina Dominguez (Clinical Laboratory Sciences - Interdisciplinary Health Sciences – Bioinformatics)
- 8) NIH, 2R25GM069621-09
Project: RISE Option III: Research Scholars Program
Awarded: \$4,312,042
Period: 05/25/2012 – 03/31/2016
Role: co-PI. PI: Dr. Renato Aguilera, Biological Sciences
- 9) NSF, DRL-1322600
Project: Transforming Students' Partnership with Scientists through Cogenerative Dialogues

Awarded: \$1,499,756.00

Period: 10/01/2013 – 9/30/2017

Role: Co-Principal Investigator (co-PI, 2013 - 2014). PI- Pei-Ling Hsu, Teacher Education

10) NIH, BBRC

Project: Bio-Analytical assessments of Glucocorticoids in wastewater and freshwater supplies on Human Health

Awarded: \$12,500

Period: 07/01/2011 - 06/30/2012

Role: PI

11) NIH, BBRC

Project: Health Impact of Endocrine Disruptors in the Border area

Awarded: \$12,500

Period: 07/01/2010 - 06/30/2011

Role: co-PI. PI: Dr. Elizabeth Walsh, Biological Sciences

12) NIH, MBRC SCORE

Project: Health Impact of Endocrine Disruptors in the Border area

Awarded \$ 577,370

Period: 09/01/2007 to 05/31/2011

Role: PI

13) Center for Border Health Research

Project: Organic Wastewater Compounds in the Paso del Norte Region

Awarded \$ 75, 000

Period: 01/01/06 to 12/30/08

Role: PI

14) Southwest Center for Environmental Research and Policy (SCERP)

Project: Field Evaluation of Sources of Air-Borne PAHs in the El Paso Area

Awarded \$ 45,000

Period: 6/1/06 – 5/31/08

Role: PI

15) Southwest Center for Environmental Research and Policy (SCERP), FY 2004 Applied Border Environmental Research Program

Project: A Baseline Study on the Occurrence of Organic Wastewater Compounds in the Paso del Norte

Awarded \$ 74,262

Period: 06/01/04 to 12/15/05

Role: PI

16) Department of Energy, HBCU-MI

Project: Study of the Phytoremediation Potential of Desert Plants for the Cleanup of Persistent Organic Pollutants in Soil

Awarded \$ 93,112

Period: 09/30/03 to 12/31/06

Role: PI

17) Keck/PKAL Facilitating Interdisciplinary Learning project

Awarded: no fiscal award was given. UTEP was selected to participate in the development of a national interdisciplinary STEM resource for undergraduate education

Period: 08/01/08 – 12/30/2010

Role: Principal Investigator

- 18) Department of Health and Human Services: Advanced Research Cooperation for Environmental Health (ARCH)

Project: UTEP-UNM HSC ARCH Program on Border Asthma

Awarded \$ 5,117,244

Period: 07/01/05 to 6/30/10

Role: Co-PI

- 19) Department of the Army, US Army Research, Development and Engineering Command
Project: Development of Materials World Modules (MWM) for Undergraduate Science Courses. Contract No. W911NF-04-1-0052

Awarded \$ 1,250,000

Period: 03/01/04 – 02/28/09

Role: Investigator

Internal Grants Awarded

- 20) Interdisciplinary Research (IDR) Enhancement Program Award, UTEP

Project: Study of Removal of Contaminants of Emerging Concerns in Municipal Wastewater

Awarded \$ 25,000

Period: 01/01/13 to 12/31/13

Role: PI

- 21) University Research Institute Grant (URI), UTEP

Project: Development of a Novel Non-Invasive Diagnostic Method for Early Detection of Prostate and Breast Cancer

Awarded \$ 5,000

Period: 09/01/11 to 08/31/12

Role: PI

- 22) Undergraduate Teaching Research Integration (U-TRI) Course Development ,
UTEP

Project: Development of a Novel Non-Invasive Diagnostic Method for Early Detection of Prostate and Breast Cancer – an inquiry based learning for Analytical Chemistry Laboratory

Awarded \$ 5,000

Period: 09/01/12 to 12/31/12

Role: PI

- 23) National Science Foundation, Advance Initiative, UTEP

Project: DDT and its Metabolites in Breast Milk: Preliminary Study in El Paso

Awarded \$ 5,139; Student support

Period: 1/15/07 to 5/31/07

Role: Student Mentor & PI

- 24) National Science Foundation, Advance Initiative, UTEP,

Project: Study of Wastewater Organic Contaminants in El Paso

Awarded \$ 5,139; Student support

Period: 1/15/06 to 5/31/06

Role: Student Mentor & PI

25) Center for Civil Engagement, UTEP

Project: Developing an Effective Recycling Program on Campus through Students Engagement

Awarded \$ 4,600

Period: 09/01/05 to 12/31/05

Role: PI

26) National Science Foundation, Advance Initiative, UTEP,

Project: Method Development for Analysis of Persistent Organic Pollutants in Food Using Stir Bar Sorptive Extraction and GC/MS

Awarded \$ 5,139; Student support

Period: 6/1/05 to 8/31/05

Role: Student Mentor & PI

27) National Science Foundation, Advance Initiative, UTEP

Project: Occurrence and Concentration of Persistent Organic Pollutants (POPs) in the Paso del Norte Region

Awarded \$ 5,139; Student support

Period: 6/1/04 to 8/31/04

Role: Student Mentor & PI

28) University Research Institute, UTEP

Project: Occurrence and Concentration of Persistent Organic Pollutants (POPs) in the Paso del Norte Region

Awarded \$ 3,000

Period: 1/1/04 to 8/31/04

Role: PI

29) Start-Up Funding, UTEP, Awarded \$159,000, 1/1/03 to 8/31/05.

PATENTS

- CANCER DIAGNOSTIC TOOL BASED ON VOLATILE ORGANIC COMPOUNDS
Issue Date: 02 - 02 - 2021
Application Date: 10 - 25 - 2018
Patent No. 10,908,162
- ANALYTICAL TECHNIQUE FOR MEASURING BOUND GLYCERIDES IN A BIODIESEL COMPOSITION
Issue Date: 07 - 02 - 2013
Application Date: 04 - 06 - 2010
Patent No. 8,476,075

PUBLICATIONS

- 1) Esquivel, S. V., Bhatt, H. N., Diwan, R., Habib, A., **Lee, W. Y.**, Khatun, Z., & Nurunnabi, M. (2023). β -Glucan and Fatty Acid Based Mucoadhesive Carrier for

- Gastrointestinal Tract Specific Local and Sustained Drug Delivery. *Biomolecules*, 13(5), 768. <https://doi.org/10.3390/biom13050768>
- 2) Huang, H., **Lee, W.-Y.**, Zou, H., Li, H., Zhang, S., Li, H., & Lin, J. (2023). Antimicrobial Peptides in *Dendrobium officinale*: Genomic Parameters, Peptide Structures and Gene Expression Patterns. *The Plant Genome*. <https://doi.org/10.1002/tpg2.20348>
 - 3) Ye, Y., Landa, E. N., Cantu, J. M., Hernandez-Viezcas, J. A., Nair, A. N., **Lee, W.-Y.**, Sreenivasan, S. T., Gardea-Torresdey, J. L. (2022). A double-edged effect of manganese-doped graphene quantum dots on salt-stressed *Capsicum annum* L. *Science of The Total Environment*, 844, 157160. <https://doi.org/10.1016/j.scitotenv.2022.157160>
 - 4) Huang, H., Grajeda, B., Ellis, C. C., Estevao, I. L., Lee, W.-Y. (2022). A comparative proteomics study of *Arabidopsis thaliana* responding to the coexistence of BPA and TiO₂-NPs at environmentally relevant concentrations. *Ecotoxicology and Environmental Safety*, 241, 113800. <https://doi.org/10.1016/j.ecoenv.2022.113800>
 - 5) Guest, C., Harris, R., Sfanos, K. S., Trock, B., **Lee, W.-Y.**, Gao, Q., Simons, J., Merishin, A. (2021). Feasibility of Integrating Canine Olfaction with Chemical and Microbial Profiling of Urine to Detect Lethal Prostate Cancer. *PLOS ONE*, 16(2), e0245530. <https://doi.org/10.1371/journal.pone.0245530>
 - 6) Gómez-Torres, A., Aguilar-Calderón, J. R., Encerrado-Manriquez, A. M., Pink, M., Metta-Magaña, A. J., **Lee, W. Y.**, & Fortier, S. (2020). Titanium-Mediated Catalytic Hydrogenation of Monocyclic and Polycyclic Arenes. *Chemistry*, 26(13), 2803-2807. <https://doi.org/10.1002/chem.201905466>
 - 7) Sengupta, D., Sandoval-Pauker, C., Schueller, E., Encerrado-Manriquez, A. M., Metta-Magaña, A., **Lee, W.-Y.**, Seshadri, R., Pinter, B., & Fortier, S. (2020). Isolation of a Bimetallic Cobalt(III) Nitride and Examination of Its Hydrogen Atom Abstraction Chemistry and Reactivity toward H₂. *Journal of the American Chemical Society*, 142(18), 8233-824
 - 8) Wang Q*, Nitka T*, Gao Q*, **Lee, W.-Y.**, Chen X, Irimpan M, Vukovic L, Kim CY. (2020). X-ray crystal structure of MonCI, an epoxidase from the monensin biosynthesis pathway. *The FASEB Journal*, 34(S1), 1-1. doi: 10.1096/fasebj.2020.34.s1.00564
 - 9) Qin Gao, Wen-Yee Lee. Urinary metabolites for urological cancer detection: a review on the application of volatile organic compounds for cancers. *American journal of clinical and experimental urology*. 2019;7(4):232.
 - 10) Gao Q, Su X, Annabi MH, Schreiter BR, Prince T, Ackerman A, Morgas S, Mata V, Williams H, **Lee W-Y**. Application of Urinary Volatile Organic Compounds (VOCs) for the Diagnosis of Prostate Cancer, *Clinical Genitourinary Cancer*, 2019, <https://doi.org/10.1016/j.clgc.2019.02.003>.
 - 11) Fuentes MD; Gutierrez S; Sahagun D; Gomez J; Mendoza J; Ellis CC; Bauer S; Blattner J; **Lee W-Y**; Alvarez M; Domínguez DC, Assessment of Antibiotic Levels, Multi-Drug Resistant Bacteria and Genetic Biomarkers in the Waters of the Rio Grande River Between the United States-Mexico Border, *Journal of Health and Pollution* (2019) 9 (23): 190912. <https://doi.org/10.5696/2156-9614-9.23.190912>
 - 12) Sarma H, Nava AR, Encerrado-Manriquez AM, Dominguez DC, **Lee W-Y**, Biodegradation of bisphenol A by bacterial consortia isolated directly from river

sediments. *Environmental Technology & Innovation*, 14, 2019, 100314.
<https://doi.org/10.1016/j.eti.2019.01.008>.

- 13) Sarma, H.; **Lee, W.-Y.** Bacteria enhanced lignocellulosic activated carbon for biofiltration of bisphenols in water. *Environ Sci Pollut Res Int.* 2018 Jun;25(18):17227-17239. doi: 10.1007/s11356-018-2232-7. Epub 2018 May 28.
- 14) Tan, W. *, Gao, Q. *, Deng, C. *, Wang, Y. *, **Lee, W.-Y.**, Hernandez-Viezcas, J.A., Peralta-Videa, J.R., Gardea-Torresdey, J.L., Foliar Exposure of Cu(OH)₂ Nanopesticide to Basil (*Ocimum basilicum*): Variety-Dependent Copper Translocation and Biochemical Responses, *Journal of Agricultural and Food Chemistry* 2018 66 (13), 3358-3366.
- 15) Toro-Vélez, A.; Madera-Parra, C; Peña-Varón, M.; García-Hernández, H.; **Lee, W.Y.**, Walker, S.; Lens, P. “ Longitudinal Removal of Bisphenol-A and Nonylphenols from Pretreated Domestic Wastewater by Tropical Horizontal Sub-Surface Constructed Wetlands”, *Applied Sciences* 2017, 7(8), 834; doi:10.3390/app7080834.
- 16) Toro-Vélez, A.F., Madera-Parra, C.A., Peña-Varón, M.R., **Lee, W.Y.**, Bezares-Cruz, J.C. *, Walker, W.S., Cárdenas-Henao, H., Quesada-Calderón, S., García-Hernández, H., Lens, P.N.L. “BPA and NP removal from municipal wastewater by tropical horizontal subsurface constructed wetlands”, *Science of the Total Environment*, 2016 Jan 15;542 (Pt A):93-101. doi: 10.1016/j.scitotenv.2015.09.154. Epub 2015 Oct 28.
- 17) Rocha-Gutiérrez, B.A., **Lee, W.-Y.**, Walker, W.S. “Mass balance and mass loading of Polybrominated Diphenyl Ethers (PBDEs) in a tertiary wastewater treatment plant using SBSE-TD-GC/MS”, *Water Science and Technology*, Available Online 24 September 2015, DOI: 10.2166/wst.2015.492.
- 18) Teoh, W.-T., **Lee, W.-Y.**, Sato, K. “Alginate-based Composite for Removal of Endocrine Disruptor Bisphenol A from Water: A Feasibility Study by Stir Bar Sorptive Extraction Method”, *Proceedings of IGNITE 2013*, Penang, Malaysia, December 5, 2013.
- 19) Rico, C. *, Morales, M. *, McCreary, R. *, Castillo-Michel, H., Barrios, A. *, Jong, J. *, Tafoya, A. *, **Lee, W.-Y.**, Varela-Ramirez, A., Peralta-Videa, J.R., Gardea-Torresdey, J.L., “Cerium Oxide Nanoparticles Modify The Antioxidative Stress Enzyme Activities And Macromolecule Composition In Rice Seedlings”, *Environ. Sci. Technol.*, 2013, 47 (24), 14110–14118, DOI: 10.1021/es4033887.
- 20) Rico, C. *, Morales, M. *, Barrios, A. *, McCreary, R. *, Jong, J. *, **Lee, W.-Y.**, Nunez, J., Peralta-Videa, J.R., Gardea-Torresdey, J.L., “Effect of Cerium Oxide Nanoparticles on the Quality of Rice (*Oryza sativa* L.) Grains” *J. Agric. Food Chem.*, 2013, 61 (47), 11278–11285, DOI: 10.1021/jf404046v.
- 21) Rocha-Gutierrez, B.*; **Lee, W.-Y.** “Investigation of Polybrominated Diphenyl Ethers in Wastewater Treatment Plants Along the U.S. and Mexico Border: a Trans-boundary Study”, *Water Air Soil Pollution*, 2013, 224:1398; DOI 10.1007/s11270-012-1398-8
- 22) Rocha-Gutierrez, B.*; **Lee, W.-Y.** “Determination and comparison of polybrominated diphenyl ethers in primary, secondary, and tertiary wastewater treatment plants, *International Journal of Environmental Analytical Chemistry*, 2012, 92(13), 1518-1531, DOI:10.1080/03067319.2011.585713.
- 23) Ortiz, A.C.*, Russell, M., **Lee, W.Y.**, Apte, M.G. and Maddalena R.. 2010 “Identifying Sources of Volatile Organic Compounds and Aldehydes in a High Performance Building” LBNL-3979, Lawrence Berkeley National Laboratory.

- 24) Yamaguchi, C.*, **Lee, W.-Y.**, “A cost effective, sensitive, and environmentally friendly sample preparation method for determination of Polycyclic Aromatic Hydrocarbons in solid samples”, *Journal of Chromatography A*, 2010, 1217(44):6816-23.
- 25) Balsiger, H.A., de la Torre, R.*, **Lee, W.-Y.**, Cox, M.B. “A Four-Hour Yeast Bioassay for the Direct Measure of Estrogenic Activity in Wastewater without Sample Extraction, Concentration, or Sterilization” *Science of the Total Environment*, 2010, 408(6), 1422-9.
- 26) Lauer, F.T., Mitchell, L.A.*, Bedrick, E., McDonald, J.D., **Lee, W.-Y.**, Li, W.W., Olivera, H., Amaya, M.A., Berwick, M., Gonzales, M., Currey, R., Pingitore, N.E., and Burchiel, S.W. “Temporal-Spatial Analysis of U.S.- Mexico Border Environmental Fine and Coarse PM Air Sample Extract Activity in Human Bronchial Epithelial Cells”, *Toxicology and Applied Pharmacology*, 2009, 238(1), 1-10.
- 27) De La Torre-Roche, R.J.*; **Lee, W.-Y.**; Campos-Díaz, S.I.* “Soil-borne polycyclic aromatic hydrocarbons in El Paso, Texas: Analysis of a potential problem in the United States/Mexico border region, *Journal of Hazardous Materials*, 2009, 163(2-3), 946 – 958.
- 28) Carlo-Rojas, Z.*; **Lee, W.-Y.**, “Cu and Zn Uptake Inhibition by PAHs as Primary Toxicity in Plants”, *Proceedings of the 2007 National Conference on Environmental Science & Technology*, 2009, Springer Science + Business Media, 41-46.
- 29) Hampton, E., **Lee, W.-Y.**, Funk, S., Keele, K., Wallace, M. ”Plastics in our Environment: A Jigsaw Learning Activity”, *Science Scope*, NSTA Press, 2009, 32, 56-61.
- 30) Shi, Y.*; Murr, L.E.; Soto, K.F.*; Guerrero, P.A.*; **Lee, W.-Y.**; Ramirez, D.A.* “Characterization and Comparison of Speciated Atmospheric Carbonaceous (Soot) Particulates and Their Polycyclic Aromatic Hydrocarbon Contents in the Context of the Paso Del Norte Airshed Along the U.S.-Mexico Border”, *Polycyclic Aromatic Compounds*, 2007, 27: 361-400.
- 31) **Lee, W.-Y.**, Hampton, E. "Innovation Integration: Chemistry + Education + Feminist Studies + Service Learning", *The International SUN Conference 2006 Conference Proceedings*, 2006. Accessed online at <http://sunconference.utep.edu/SunHome/2006/docs/proceedings/Innovation%20Integration.doc>
- 32) Mattina, M.J.; Eitzer, B.D.; Iannucci -Berger, W.; **Lee, W.-Y.**; White, J.C., “Plant Uptake and Translocation of Highly Weathered, Soil-Bound Technical Chlordane Residues: Data from Field and Rhizotron Studies”, *Environmental Toxicology and Chemistry*, 2004, 23 (11), 2756–2762.
- 33) **Lee, W.-Y.**; Iannucci -Berger, W.; Eitzer, B.D.; White, J.C.; Incorvia Mattina, M.J. “Plant Uptake and Translocation of Air-Borne Chlordane and Comparison with the Soil-to-Plant Route.” *Chemosphere*, 2003, 53, 111-121.
- 34) **Lee, W.-Y.**; Iannucci-Berger, W.; Eitzer, B.D.; White, J.C.; Incorvia Mattina, M.J. “Persistent Organic Pollutants in the Environment: Chlordane Residues in Compost”, *Journal of Environmental Quality*, 2003, 32, 224-231.
- 35) White, J.C.; Incorvia Mattina, M.J.; **Lee, W.-Y.**; Eitzer, B.D.; Iannucci -Berger, W. “Role of Organic Acids in Enhancing the Desorption and Uptake of Weathered *p,p'*-DDE by Cucurbita pepo” *Environmental Pollution*, 2003, 124, 71-80.
- 36) **Lee, W.-Y.**, Salvador, J. M., Bodige, K., “Synthesis of *trans*-2-(1-aryl-1-methylethyl) cyclohexylamines”, *Organic Letters*, 2000, 2 (7), 931-932.

- 37) Rum, G.; **Lee, W.-Y.**; Gardea-Torresdey, J. "Application of an USEPA Approved Method for Fluoride Determination in an Environmental chemistry laboratory: Fluoride Detection in Drinking Water" *Journal of Chemical Education*, 2000, 77, 1604-1607.

PRESENTATIONS (Due to the large quantities of the presentations, only those from 2021 to 2023 are listed.)

- 1) Holbrook, K., Badmos, S., Noriega Landa, E., Quaye, G. E., Pokojovy, M., Su, X., Lee, W.-Y., Annual Biochemistry and Chemistry Day 2023, "Does storage conditions affect the use of urine metabolomics in cancer diagnosis?," Department of Chemistry and Biochemistry, El Paso, TX. (April 1, 2023).
- 2) Noriega Landa, E., Badmos, S., Holbrook, K., Quaye, G. E., Su, X., Lee, W.-Y., Annual Biochemistry and Chemistry Day 2023, "Fatty acid biomarkers in urine for prostate cancer diagnosis," Department of Chemistry and Biochemistry, El Paso, TX. (April 1, 2023).
- 3) Habib, A., Lee, W.-Y., Annual Biochemistry and Chemistry Day 2023, "Green Analytical Techniques for Determination of Per- and Polyfluoroalkyl Substances (PFAS) Precursors in Water," Department of Chemistry and Biochemistry, El Paso, TX. (April 1, 2023).
- 4) Chacon, A. A., Lee, W.-Y., Annual Biochemistry and Chemistry Day 2023, "Removal of Nonylphenol from water using Activated Carbon-Alginate (AlgC) beads," Department of Chemistry and Biochemistry, El Paso, TX. (April 1, 2023).
- 5) Habib, A., Lee, W.-Y., ACS Spring 2023, "Green Analytical Techniques for Determination of Per- and Polyfluoroalkyl Substances (PFAS) Precursors in Water," ACS, Indianapolis, IN. (March 27, 2023).
- 6) Chacon, A. A., Lee, W.-Y., ACS Spring 2023, "Removal of Nonylphenol from water using Activated Carbon-Alginate (AlgC) beads," ACS, Indianapolis, IN. (March 27, 2023).
- 7) Holbrook, K., Badmos, S., Noriega Landa, E., Quaye, G. E., Pokojovy, M., Su, X., Lee, W.-Y., Texas Academy of Science 126th Annual Meeting, "Does storage conditions affect the use of urine metabolomics in cancer diagnosis?," TAS, San Angelo, Texas. (March 3, 2023).
- 8) Noriega Landa, E., Badmos, S., Holbrook, K., Quaye, G. E., Su, X., Lee, W.-Y., Texas Academy of Science 126th Annual Meeting, "Fatty acid biomarkers in urine for prostate cancer diagnosis," TAS, San Angelo, Texas. (March 3, 2023).
- 9) Lee, W.-Y., "Urinary Biomarkers for Prostate Cancer Diagnosis and Risk Assessment," National Taipei University of Technology, Taipei, Taiwan. (December 22, 2022).
- 10) Holbrook, K., Noriega Landa, E., Badmos, S., Quaye, G. E., Su, X., Lee, W.-Y., Society for Basic Urologic Research (SBUR) 2022 Annual Meeting, "Developing Standard Operating Procedure for Organic Metabolites in Urine for Cancer Diagnosis," SBUR, Virtual. (November 11, 2022).
- 11) Noriega Landa, E., Quaye, G. E., Su, X., Holbrook, K., Badmos, S., Lee, W.-Y., Society for Basic Urologic Research (SBUR) 2022 Annual Meeting, "Fatty Acid Biomarkers in Urine for Prostate Cancer Diagnosis," SBUR, Virtual. (November 11, 2022).
- 12) Asante, P., Lee, W.-Y., Mariani, M. C., Orosz, M., Pokojovy, M., 28th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational

- Sciences, "Two machine learning models for prostate cancer screening using urinary volatile organic compounds.," NMSU/UTEP, El Paso, TX. (November 5, 2022).
- 13) Lee, W.-Y., Noriega Landa, E., Badmos, S., Quaye, G. E., Holbrook, K., 29th Annual Prostate Cancer Foundation Scientific Retreat, "Will banked urine sample storage duration affect the accuracy of using urine for prostate cancer diagnosis?," Prostate Cancer Foundation, Carlsbad, CA. (October 27, 2022).
 - 14) Lee, W.-Y., 2022 Southeastern Regional Meeting, "Removal of endocrine disruptors in wastewater treatment plants: a binational study along the US-Mexico border region," ACS, San Juan, PR. (October 19, 2022).
 - 15) Quaye, G. E., Su, X., Lee, W.-Y., Fall Central AMS Sectional Meeting, "Comparison of Various Supervised Learning Algorithms for Prostate Cancer Prediction," UTEP, El Paso, TX. (September 17, 2022).
 - 16) Asante, P., Lee, W.-Y., Mariani, M. C., Orosz, M., Pokojovy, M., Fall Central AMS Sectional Meeting, "Machine learning models for prostate cancer screening using urinary volatile organic compounds," El Paso, TX. (September 17, 2022).
 - 17) Valenzuela, J., Holbrook, K., Badmos, S., Noriega Landa, E., Lee, W.-Y., COURI Symposium, "Diet has no significant influence on using urinary organic metabolites for prostate cancer diagnosis," UTEP, UTEP. (August 6, 2022).
 - 18) Duran, L. R., Chacon, A., Habib, A., Lee, W.-Y., COURI Symposium, "Removal of "Everywhere Endocrine Disrupting Compounds" From Water and Wastewater Using Ecofriendly Material," UTEP, UTEP. (August 6, 2022).
 - 19) Holbrook, K., Lee, W.-Y., 125th Annual Meeting of the Texas Academy of Science, "A Reliable SOP for Urine Biomarkers Within Storage and Sampling Analyses," TAS, Houston, TX. (February 25, 2022).
 - 20) Habib, A., Lee, W.-Y., 125th Annual Meeting of the Texas Academy of Science, "In-situ multi-residue derivatization and extraction of Per- and polyfluoroalkyl substances (PFASs) using stir bar sorptive extraction prior GC-MS analysis," TAS, Houston, TX. (February 25, 2022).
 - 21) Chacon, A., Lee, W.-Y., 125th Annual Meeting of the Texas Academy of Science, "Removal of Nonylphenol from water using Activated Carbon-Alginate (AlgC) beads," TAS, Houston, TX. (February 25, 2022).
 - 22) Chacon, A.A., Lee, W.-Y., "Removal of Nonylphenol from water using Activated Carbon-Alginate (AlgC) beads", UTEP GradExpo, November 9, 2021, El Paso, TX.
 - 23) Noriega Landa, E., Encerrado Manriquez, A., Lee, W.-Y., "Fatty acid biomarkers for prostate cancer diagnosis", UTEP GradExpo, November 9, 2021, El Paso, TX.
 - 24) Habib, A; Lee, W.-Y., "In-situ multi-residue Derivatization and extraction of per- and polyfluoroalkyl substances (PFAS) in water coupled with GC-MS:, UTEP GradExpo, November 9, 2021, El Paso, TX.
 - 25) Holbrook, K., Lee, W.-Y., "SOP for Urine Biomarkers within storage and sampling analyses", UTEP GradExpo, November 9, 2021, El Paso, TX.
 - 26) Habib, A; Lee, W.-Y., "Occurrence, Fate & Transport of Per- and Polyfluoroalkyl Substances (PFAS) in Water" World Water Day 2021, UTEP, El Paso, TX. March 24, 2021.

COMMITTEE & SERVICE

Department

- Graduate Program Advisor (2019 – Present)
- Forensic Chemistry Faculty Search Committee Chair, October 2022 – April 5, 2023
- Environmental Chemistry Faculty Search Committee Chair, October 2020 – May 15, 2021
- Lab Coordinator Search Committee member, December 2019 and 2022.
- Department Chair Search Committee Member, October 2019 – December 2019.
- Capstone Course Development Committee Chair, 2015 – 2017
- Department Administration Assistant Search Committee Member, July 2017
- Department of Chemistry, General Chemistry Coordinator Position Search Committee (August, 2015)
- Department of Chemistry, Analytical Chemistry Faculty Position Search Committee (2010-2011)
- Graduate Admission Committee for Chemistry Program (2008 to 2015)

College

- Graduate Curriculum Committee member (2020 – present)
- Admission Committee for Environmental Science Master Program (2007 to present)
- BBRC Program, Department of Biology, Toxicology Faculty Position Search Committee (2010)
- Program Development Committee in Master in Environmental Science (2005)
 - College of Science Awards Committee – Chemistry Department Representative (2004 to 2009)
- Committee for Pathways Undergraduate Research Experience Program (PREP) (2004-2005)

University

- Committee Member, Faculty Senate Committee on committees. (January 2022 - Present).
- Committee Member, Student Conduct Hearing Officer. (January 2019 - Present).
- Committee Member, VPR search Committee. (August 2022 - December 2022).
- SACNAS Student Chapter Faculty Advisor (2017-2022)
- American Cancer Society Student Chapter Faculty Advisor (2019-2021)
- COURI Advising Committee (2010- present)
- UTEP Student Grievance Committee (2015-2018)
- Faculty Senate, UTEP (2014-2016)
- Member of the Women's Advisory Council to the President (2008 to 2011)
- Sigma Xi Admissions Committee (2006 to 2010)
- Program Development Committee for the Border Security Research Task Force, UTEP (2005)

PROFESSIONAL ACTIVITIES

Officer:

- Society of Environmental Toxicology and Chemistry, Southwest Regional Section, Officer, Treasurer, June 2019 – Present
- American Chemical Society, Rio Grande Valley Local Section, Officer, Treasurer, 2014 - Present

Grant proposal reviewer

- ConTex grant proposal reviewer
- NSF grant proposal reviewer
- National Institutes for Water Resources (NIWR) grant proposal reviewer

Manuscript Reviewer

- Talanta
- Environmental Toxicology and Chemistry
- Journal of Chromatography A
- Journal of Hazardous Materials
- Water Research
- Chemosphere

LANGUAGES

- English
- Chinese (Mandarin and Taiwanese)