

MELANIE L. SATTLER, Ph.D., P.E.

PROFESSIONAL EXPERIENCE

- 2010 - Present **Associate Professor, Civil Engineering, University of Texas at Arlington**
- Teach Fundamentals of Air Pollution, Special Topics in Air Pollution, Current Topics in Environmental Engineering, and Environmental Engineering Process and Analysis Lab
 - Conduct research in the areas of landfill gas emissions, anaerobic processes, and air pollution modeling and control
- 2003 - 2010: **Assistant Professor, Civil Engineering, University of Texas at Arlington**
- Taught Fundamentals of Air Pollution, Air Pollution Chemistry & Meteorology, Air Pollution Control System Design, Air Quality Modeling, and Transportation & Air Quality
 - Conducted research in the areas of emissions measurement, air quality modeling, and air pollution control technologies. Currently supervise students conducting field measurement of on-road emissions, as well as lab research concerning adsorption, photocatalytic oxidation, and biofiltration of air pollutants.
- 1998 - 2002: **Adjunct Faculty Member, Civil Engineering, University of Texas at Arlington.**
Taught Air Pollution Control.
- 2001 – 2003: **Engineer/Scientist, Alan Plummer Associates, Inc.**
- Primary responsibilities included odor/air quality emission sampling and dispersion modeling. Sample projects included:
 - Odor Modeling and Control Evaluation, Trinity River Authority Central Wastewater Treatment Facility
 - Texas Christian University Chemistry Lab Dispersion Modeling
 - PVI Industries Emissions Inventory
 - Air Quality Regulatory Assistance - permitting electric turbines and an electric generating facility, and emissions banking/trading
- 1997 - 2001: **Environmental Planner, Environmental Resources Dept., North Central Texas Council of Governments**
- Responsibilities concerning air quality, flood damage reduction, and stormwater management. Sample assignments included:
 - Dallas/Fort Worth Clean Air Plan (State Implementation Plan) development. Recommended Voluntary Mobile Emission Reduction Program measures. Researched information about technologies for reducing nitrogen oxide emissions from heavy-duty diesel non-road vehicles. Conducted an inventory of nitrogen oxide emissions from construction equipment operating at landfills.
 - Dallas/Fort Worth Regional Emissions Inventory. Under contract to the Texas Natural Resource Conservation Commission, served as Project Coordinator and Project Manager for the Periodic and Episodic Inventories, respectively, of construction equipment, recreational marine vehicles, refueling stations, and lawn mowers for a 37-county area in North Central Texas.

- Texas Community Development Program. Managed TCDP for North Central Texas, which annually awarded over \$4 million for water/wastewater system improvements in small communities.
- Trinity River Floodplain Management. Managed the Corridor Development Certificate process, which ensures that development in the Trinity River 100-year floodplain meets hydraulic criteria to avoid exacerbating flooding. Provided staff support for the Trinity River Common Vision Multiple Objective Management Program.
- Storm Water Management. Provided assistance to North Central Texas cities in reducing storm water pollution from new development under the National Pollutant Discharge Elimination System (NPDES). Wrote “Green Growth,” a guide for cities to design development that is storm water friendly.

1996 - 1997: **Environmental Intern, North Central Texas Council of Governments**

1990 - 1996: **Teaching Assistant and Research Assistant, Environmental and Water Resources Engineering Department, University of Texas at Austin**

EDUCATION

Ph.D., Environmental Engineering, University of Texas at Austin, 1996

- Dissertation: “Photocatalytic Oxidation of Volatile Organic Compounds in Air over Titanium Dioxide.”
- Advisor: Dr. Howard M. Liljestrand
- UT Austin Thrust 2000 Fellowship
- Hawley Fellowship, Texas ASCE
- Air & Waste Management Association Scholarship, First Place National Award 1994-95, Third Place National Award 1993-94

M.S., Environmental Engineering, University of Texas at Austin, 1993

- Thesis: “Chemical Mass Balance Receptor Model: An Application to Los Angeles.”
- Advisor: Dr. Howard M. Liljestrand

B.S., Civil Engineering, B.A., Physics, Texas A&M University, 1990

- *Summa Cum Laude* and graduation with University Honors
- Texas A&M President’s Endowed Scholarship
- Lockheed Martin National Merit Scholarship

SPONSORED PROJECTS

1. "Monitoring of Settlement and Temperature of Solid Waste in Enhanced Leachate Recirculation (ELR) Landfill" funded by City of Denton, Texas (\$54,472), Jan. 2011- April 2012, Role: Co-PI.
2. "Cefe Valenzuela Landfill – Evaluation of Enhanced Leachate Recirculation with Saline Groundwater" funded by City of Corpus Christi, Texas (\$48,378), Jan. 2011- Dec. 2011, Role: Co-PI.
3. "Photocatalytic Oxidation Testing of Tile," funded by Tile Council of North America (\$8013), 2011, Role: PI.
4. "UT Arlington REU Site on Hazard Mitigation" funded by National Science Foundation Research Experience for Undergraduates program (\$300,000), 2010-2012, Role: Co-PI.
5. "Reviewing Luminant's Capital Portfolio Optimization Process and Integration of SNCR Capabilities into Luminant's Emissions Management Software," funded by Luminant (\$50,000), 2010, Role: Co-PI.
6. "Engineering Sustainable Engineers" funded by National Science Foundation (\$150,000), 2009-2011, Role: PI.
7. "A Carbon Extraction Process for Converting Southwestern Lignite to JP-8," funded by Defense Advanced Research Projects Agency (DARPA) (\$645,837), 2009-2010, Role: Co-PI.
8. "Dispersion Modeling of Organic Air Pollutants from a Natural Gas Compressor Station," funded by Wolf Eagle Environmental Engineers and Consultants (\$750), 2010, Role: PI.
9. "Dispersion Modeling of Organic Air Pollutants from a Natural Gas Compressor Station," funded by Town of Dish (\$750), 2009, Role: PI.
10. "Dispersion Modeling of Organic Air Pollutants from a Natural Gas Compressor Station," funded by Wolf Eagle Environmental Engineers and Consultants (\$1500), 2009, Role: PI.
11. "Transferring SCR Management Software to Luminant," funded by Luminant (\$100,000), 2009-2010, Role: Co-PI.
12. "Go Green Emission Testing Program," funded by Go Green Fuel Systems (\$21,551), 2008-2011, Role: PI.
13. "Surface Coating Permit by Rule Protectiveness and Streamlining Review," funded by Texas Commission on Environmental Quality (\$69,951), 2008-2009, Role: PI.
14. "Scientist Services Detailed in the Holcim Settlement Agreement," funded by Downwinders at Risk Education Fund (\$20,000), 2008-2010, Role: PI.
15. "City of Duncanville Emission Testing Program," funded by Integrated Resource Group (\$1128), 2008, Role: PI.

16. "UT Arlington RET Site on Hazard Mitigation," funded by National Science Foundation Research Experience for Teachers program (\$520,456), 2008-2012, Role: Co-PI.
17. "Optimizing Coal Plant NO_x Emissions at Luminant," funded by Luminant (\$100,000), 2008-2009, Role: Co-PI.
18. "Assessing Control Strategies for Ground Level Ozone," funded by Luminant (previously Texas Utilities) Environmental Research Program (\$74,782), 2006-2009, Role: PI.
19. "Aftermarket Technology and Fuel Additive Research Program," funded by the North Central Texas Council of Governments, 2005-2007 (\$146,086), Role: PI one year, Co-PI one year.
20. "Using Operations-Oriented Performance Measures to Support Freeway Management Systems" funded by Texas Department of Transportation (\$74,230), 2005-2007. Role: Co-PI.
21. "Comparison of Adsorption Capacities of Nano-adsorbents with Conventional Activated Carbon for Volatile Organic Compounds," funded by Louis Stokes Alliance for Minority Participation (LSAMP) (\$3500), 2006, Funding for undergraduate student research.
22. "DFW Construction Emissions Inventory," funded by Eastern Research Group (\$18,954), 2004-2005. Role: PI.
23. "On-Road Measurement of Air Quality Benefits: Traffic Signal Improvements," funded by Texas Air Research Center, 2004-2005 (\$31,315). Role: PI.
24. "Control of Reduced Sulfide Compounds in Air using Adsorption and Biofiltration," funded by UTA Research Enhancement Program, 2003-2004 (\$9860). Role: PI.

PUBLICATIONS

Refereed Journal Articles: Under Review or In Revision

1. Gangupomu, Roja; Kositkanawuth, Ketwalee; Sattler, Melanie L.; Ramirez, David; Dennis, Brian H.; MacDonnell, Frederick M.; Billo, Richard, and Priest, John W. "Analysis and Comparison of Inertinite-Derived Adsorbent with Conventional Adsorbents." *Journal of the Air & Waste Management Association*. Revised and resubmitted.
2. Kositkanawuth, Ketwalee; Gangupomu, Roja; Sattler, Melanie L.; Dennis, Brian H.; MacDonnell, Frederick M.; Billo, Richard, and Priest, John W. "Air Impacts from Three Alternatives for Producing Crude Oil." *Journal of the Air & Waste Management Association*. Under review.

Refereed Journal Articles: Published/Accepted

1. Sule, Neelesh; Chen, Victoria; Sattler, Melanie L. "A Decision Making Framework for Assessing Control Strategies for Ground Level Ozone." *Atmospheric Environment*. Vol. 45, Issue 28, Sept. 2011, pp. 4996-5004.
2. Sumitsuwan, Sulak; Cho, Jai; Sattler, Melanie L.; Timmons, Richard B. "Fluorination and Fluorocarbon Coating of TiO₂ by Plasma Processing: Improved Photocatalytic Oxidation of Gaseous m-Xylene." *Environmental Science & Technology*. Vol. 45, No. 16, August 15, 2011, pp. 6970-6977.
3. Phananimamai, Passakorn; Rosenberger, Jay; Chen, Victoria; Kim, Seoung; Sattler, Melanie. "A mathematical optimization technique for managing selective catalytic reduction for coal-fired power plants." *Energy Systems*. Vol. 2, No. 2, May 2011, pp. 171-188.
4. Rani, Madhu; Sattler, Melanie L. "Removal of Propylene and Butylene with Compost and Wood Chop Biofilters." *Journal of the Air & Waste Management Association*. Vol. 61, No. 5, May 2011, pp. 527-534.
5. Sattler, Melanie L.; Garrepalli, Divya R.; Nawal, Chandraprakash S. "Carbonyl Sulfide Removal with Compost and Wood Chip Biofilters, and in the Presence of Hydrogen Sulfide." *Journal of the Air & Waste Management Association*. Vol. 59, No. 12, Dec. 2009, pp. 1458-1467.
6. Yang, Zehua; Chen, Victoria; Chang, Michael; Sattler, Melanie; and Aihong Wen. "A Decision-Making Framework for Ozone Pollution Control." *Operations Research*. Vol. 57, No. 2, March/April 2009, pp. 484-498.
7. Kim, Seoung Bum; Temiyasathit, Chivalai; Park, Sun-Kyoung; Chen, Victoria C.P.; Sattler, Melanie; and Armistead G. Russell. "Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Particulate Matter 2.5 in the Continental United States." *Journal of the Air & Waste Management Association*. Vol. 58, No.7, July 2008, pp.965-975.
8. Sattler, Melanie L. and Sapna Devanathan. "Which Meteorological Conditions Produce Worst Case Concentrations from Area Sources?" *Journal of the Air & Waste Management Association*. Vol. 57, No. 11, Nov. 2007, pp. 1296-1306.

9. Sattler, Melanie. "Transportation and Air Quality/Environment: A Suggested Course Addition to the Environmental Engineering/Science Curriculum." *Environmental Engineering Science*. June 2006.
10. Sattler, Melanie L. and Ranjith Samuel Rosenberk. "Removal of Carbonyl Sulfide Using Activated Carbon Adsorption." *Journal of the Air & Waste Management Association*. Volume 56, Feb. 2006, p. 219-224.
11. Sattler, Melanie L. and Howard M. Liljestrand. "Chemical Mass Balance Model with Fractionation for Apportioning PM 2.5: A Test Case for Los Angeles Traffic Sources." *Journal of the Air & Waste Management Association*. Vol. 55, September 2005, pp. 1335-1344.
12. Nagaraj, Archana and Melanie L. Sattler. "Correlating Emissions with Time and Temperature to Predict Worst-Case Emissions from Open Liquid Area Sources." *Journal of the Air & Waste Management Association*. Vol. 55, August 2005, pp. 1077-1084.
13. Sattler, Melanie L. and Howard M. Liljestrand. "Method for Predicting Photocatalytic Oxidation Rates of Organic Compounds." *Journal of the Air & Waste Management Association*. Volume 53, Number 1, January 2003, pp. 3-12.
14. Stuckey, H. Troy and Melanie L. Sattler. "Air quality in the 21st century: community outreach in North Central Texas." *Environment International*. Volume 29. January 2003, pp. 341-346.

Book Chapters

"Anaerobic Processes for Waste Treatment and Energy Generation" in *Waste Management: Book 2*, InTech, ISBN 978-953-307-447-4, to appear August 2011.

Refereed Conference Papers

1. Sattler, Melanie; Weatherton, Yvette. "Engineering Sustainable Civil Engineers." American Society for Engineering Education, 2011 Annual Conference and Exposition, Vancouver, B.C., Canada, June 26-29, June 2011.
2. Wade, Blake; Weatherton, Yvette Pearson; Sattler, Melanie L. "Educational Benefits of Computational Modeling and Kinesthetic Experimentation," American Society for Engineering Education, 2011 Annual Conference and Exposition, Vancouver, B.C., Canada, June 26-29, 2011.
3. Sattler, Melanie. "Favoring Anaerobic Waste Treatment: A Call for a Paradigm Shift," 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
4. K. Kositkanawuth, R. H. Gangupomu, M. L. Sattler, B. Dennis, F. MacDonnell, R. Billo, J. Priest. "Evaluation of Emissions from Three Alternatives for Producing Crude," 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
5. R. H. Gangupomu, K. Kositkanawuth, M. L. Sattler, B. Dennis, F. MacDonnell, R. Billo, J. Priest. "Analysis and Comparison of Inertinite-Derived Adsorbent with Conventional Adsorbents," 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
6. Athappan, Annaprabha; Sattler, Melanie. "Adsorption Curve Fits for Landfill VOCS on Bituminous Coal Based and Coconut Shell Based Activated Carbon." 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.

7. Sumitsuwan, Sulak; Timmons, Richard; Sattler, Melanie. "Role of Moisture in Photocatalytic Oxidation of m-Xylene on Plasma Modified and Standard TiO₂," Extended Abstract, 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
8. Vaidhyanathan, Shankar and Sattler, Melanie. "Air pollution impacts of university chemistry labs: A case study," Extended Abstract, 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
9. Gandhi, Arpita and Sattler, Melanie. "Comparison of Air Dispersion Modeling Software ISCST3 vs. AERMOD: A Chemical Plant Case Study." Poster with extended abstract, 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 21-24, 2011.
10. Sumitsawan, S; Timmons, R. B. Sattler, M. L. "Photocatalytic Treatment of Volatile Organics in Air: Plasma Modified vs. Standard Titanium Dioxide." *Proceedings of the Air & Waste Management Association 103rd Annual Conference*. June 2010.
11. Rich, Alisa and Sattler, Melanie. "Assessing the Impact of Organic Air Pollutants from a Natural Gas Compressor Station." *Proceedings of the Air & Waste Management Association 103rd Annual Conference*. June 2010.
12. Rani, Madhu; Sattler, Melanie L. "Removal of Highly Reactive VOCs with Compost and Wood Chip Biofilters." *Proceedings of the Air & Waste Management Association 103rd Annual Conference*. June 2010.
13. Merin, Lince; Sattler, Melanie. "Dispersion Modeling of Mercury Using AERMOD: A Case Study for a Coal-Fired Power Plant in Texas." *Proceedings of the Air & Waste Management Association 103rd Annual Conference*. June 2010.
14. Afotey, Benjamin; Sattler, Melanie L.; Mattingly, Stephen P.; Chen, Victoria. "Statistical Approach to the Development of a Microscale Model for Estimating Carbon Dioxide Emissions from a Light Duty Gasoline Vehicle." *Proceedings of the Air & Waste Management Association 103rd Annual Conference*. June 2010.
15. Mattingly, Stephen P.; Sattler, Melanie L.; Bhatt, Hetal; Sumitsawan, Sulak; Natchanok, Pala-En; Parikh, Parthen. "Model for Estimating NO_x Emission Reductions After Closing Drive-Throughs." *Transportation Research Board Annual Meeting*. January 2009.
16. Sule, Neelesh V.; Chen, Victoria; Sattler, Melanie L. "Assessing Control Strategies for Ground-Level Ozone." *Proceedings of the Air & Waste Management Association 101st Annual Conference*. June 2008.
17. Afotey, Benjamin; Sattler, Melanie L.; Mattingly, Stephen P. "Statistical Approach to the Development of a Microscale Model for Estimating Exhaust Emissions of a Light Duty Gasoline Vehicle." *Proceedings of the Air & Waste Management Association 101st Annual Conference*. June 2008.
18. Kanukolanu, S.; Mattingly, S.; and M. Sattler. "Impact of a Pre-Combustion Retrofit Device on Vehicular Emissions: A Case Study." *Proceedings of the Air & Waste Management Association 100th Annual Conference*. June 2007.
19. Satyanarayan, S.; Mattingly, S.; and M. Sattler. "Trends of Vehicular Emissions Due to the Effect of ETHOS FR as Fuel Additive: A Case Study." *Proceedings of the Air & Waste Management Association 100th Annual Conference*. June 2007.
20. Upahdyay, Mita and Melanie Sattler. "Development of Photocatalytic Oxidation Reaction Rate Constants for Compounds Commonly Emitted from Wastewater Treatment Plants and Solid Waste Landfills." *Proceedings of the Air & Waste Management Association 100th Annual Conference*. June 2007.
21. Bhatt, Hetal H. and Melanie L. Sattler. "Determination of Safe Buffer Width to Protect Human Health from Harmful NO_x Exposure." *Proceedings of the Air & Waste Management Association 99th Annual Conference*. June 2006.
22. Garrepalli, Divya and Melanie Sattler. "Removal of Carbonyl Sulfide in Combination with Hydrogen Sulfide Using Biofiltration." *Proceedings of the Air & Waste Management Association 99th Annual Conference*. June 2006.

23. Munshi, Rupangi; Sattler, Melanie; and Stephen Mattingly. "Impacts of Signal Synchronization on Vehicular Emissions – An Onboard Measurement Case Study." *Proceedings of the Air & Waste Management Association 99th Annual Conference*. June 2006.
24. Rosenberk, Ranjith Sam and Melanie L. Sattler. "Removal of Carbonyl Sulfide Using Activated Carbon Adsorption." *Proceedings of the Air & Waste Management Association 98th Annual Conference*. June 2005.
25. Nawal, C.P. and Melanie L. Sattler. "Removal of Carbonyl Sulfide Using Biofiltration." *Proceedings of the Air & Waste Management Association 98th Annual Conference*. June 2005.
26. Devanathan, Sapna and Melanie Sattler. "Which Meteorological Conditions Produce Worst Case Concentrations from Area Sources?" *Proceedings of the Air & Waste Management Association 97th Annual Conference*. June 2004.
27. Sattler, Melanie L. and Howard M. Liljestrand. "Chemical Mass Balance Model with Fractionation: Source Apportionment of PM 2.5." *Proceedings of the Air & Waste Management Association 96th Annual Conference*. June 2003.
28. Nagaraj, Archana and Melanie L. Sattler. "Correlating Hydrogen Sulfide Emissions with Temperature to Predict Worst-Case Odor Emissions." *Proceedings of the Air & Waste Management Association 96th Annual Conference*. June 2003.
29. Sattler, Melanie L. and Ellen T. McDonald. "Time, Temperature, and Wind Speed: The Importance of Varying Emission Rates in Odor Modeling." *Odor and Toxic Air Emissions 2002*. Air & Waste Management Association Specialty Conference. April 2002.
30. Sattler, Melanie L. "Predicting Hydrogen Sulfide Emissions from Expanded Wastewater Treatment Plants." *Odor and Toxic Air Emissions 2002*. Air & Waste Management Association Specialty Conference. April 2002.
31. Sattler, Melanie L. "Technologies for Reducing NO_x Emissions from Non-Road Diesel Vehicles: An Overview." *Proceedings of the Air & Waste Management Association 94th Annual Conference*. June 2001.
32. Sattler, Melanie L. and H. Troy Stuckey. "Planning for Air Quality Compliance in Texas: A Case Study in Local SIP Development." *Proceedings of the Air & Waste Management Association 94th Annual Conference*. June 2001.
33. Sattler, Melanie L. and Howard M. Liljestrand. "Method for Predicting Photocatalytic Oxidation Rates of Organic Compounds." *Proceedings of the Air & Waste Management Association 94th Annual Conference*. June 2001.
34. MacKay, James; Thomas, Ronald; Mai, Saadia; Rae, Scott; Ross, Charlotte; Sattler, Melanie; Schoonmacher, Scott; Sims, Mike; and Troy Stuckey. "Hierarchical Emissions Inventory Development for Nested Photochemical Modeling. Part 4: Area and Nonroad Mobile Sources." in *Proceedings of Emissions Inventory: Living in a Global Environment '98*. Air & Waste Management Association specialty conference, New Orleans, Louisiana, December 8-10, 1998. Vol. 2, pp. 662-673.
35. Liljestrand, Howard. M. and Sattler, Melanie. L. "Photocatalytic Oxidation Processes for In-Door Air Pollution." *Proceedings of the Air & Waste Management Association 89th Annual Conference*. June 1996.
36. Liljestrand, H. M., Sattler, M. "Chemical Mass Balance with Fractionation: An Application to Los Angeles," in *Aerosols and Atmospheric Optics: Radiative Balance and Visual Air Quality*, Air and Waste Management Association, 1994, VIP-41, A:567-577.

Non-Refereed Conference Papers

1. Karanjekar, Richa; Gandhi, Arpita; Sattler, Melanie; Hossain, Sahadat; Chen, V.C.P. "An Improved Model to Predict Gas Generation from Landfills Based on Waste Composition, Rainfall and Ambient Temperatures," Twenty-Sixth International Conference on Solid Waste Technology and Management, Philadelphia, PA, March 27-30, 2011.
2. Sattler, Melanie and Archana Nagaraj. "Correlating Hydrogen Sulfide Emissions with Time and Temperature to Predict Worst-Case Emissions ". San Antonio, 2nd Bi-Annual Texas Odor & Corrosion Conference sponsored by Water Environment Association of Texas. August 2003.
3. Sattler, Melanie and Jack Tidwell. "Going Above and Beyond NFIP to Truly Stabilize Flood Risks: The Corridor Development Certificate Process." Floodplain Management: 2000 and Beyond - Association of State Floodplain Managers 24th Annual Conference. June 2000.
4. Medlock, Samantha; Sattler, Melanie and Jack Tidwell. "Multiple-Objective Management Case Study: The Trinity River COMMON VISION Program." Floodplain Management: 2000 and Beyond - Association of State Floodplain Managers 24th Annual Conference. June 2000.
5. Scott Rae; Sattler, Melanie, and Jack Tidwell. "Floodplain Mapping: State-of-the Art." Floodplain Management: 2000 and Beyond - Association of State Floodplain Managers 24th Annual Conference. June 2000.
6. Sattler, Melanie L.; Liljestrang, Howard M. "Design of Titanium Dioxide Photocatalytic Oxidation Systems for VOC Sources." 11th World Clean Air Congress, Durban, South Africa, September 13-18, 1998. Volume Five, pages 14 E-4, 1-5.

Conference Presentations/Posters without Papers

1. Karanjekar, Richa; Gandhi, Arpita; Sattler, Melanie; Hossain, Sahadat; Chen, V.C.P. "An Improved Model to Predict Gas Generation from Landfills based on Waste Composition, Rainfall and Ambient Temperatures," Student poster, 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 2011.
2. Kositkanawuth, Ketwalee; Sattler, Melanie. "A Case Study: Estimating Concentration of Hydrogen Sulfide Gas from Landfill A by Using AERMOD," Student poster, 104th Annual Conference of the Air & Waste Management Association. Orlando, Florida, June 2011.
3. Athappan, Annaprabha; Sattler, Melanie. "Adsorption Curve Fits for Landfill VOCS on Bituminous Coal Based and Coconut Shell Based Activated Carbon," UT Arlington Annual Celebration of Excellence by Students (ACES), March 24, 2011.
4. Gangupomu, Roja Haritha; Kositkanawuth, Ketwalee; Sattler, Melanie; Dennis, Brian; MacDonnell, Fred; Billo, Richard; Priest, John. "Analysis and Comparison of Inertinite-Derived Adsorbent with Conventional Adsorbents," poster, UT Arlington Annual Celebration of Excellence by Students (ACES), March 24, 2011.
5. Vaidhyanathan, Shankar; Sattler, Melanie. "Air Pollution Impacts of University Chemistry Labs: A Case Study." UT Arlington Annual Celebration of Excellence by Students (ACES), March 24, 2011.
6. Kositkanawuth, Ketwalee; Dennis, Brian; Sattler, Melanie. "Characterization of pyrolysis products from algae cake and plastic waste as feedstocks," poster, UT Arlington Annual Celebration of Excellence by Students (ACES), March 24, 2011.
7. Natchanok, Pala-En; Sattler, Melanie. "On-Road Measurement of NO_x and CO₂ Emissions from Biodiesel Produced from Different Feedstocks," poster, UT Arlington Annual Celebration of Excellence by Students (ACES), March 24, 2011.
8. Sattler, Melanie. Panelist. "Paradigm Shifts: Policy, Research, Curriculum, and Pedagogy." ACES Symposium "Sustainability across the Curriculum," UT Arlington Annual Celebration of Excellence by Students (ACES), March 23, 2011.
9. Sattler, Melanie. Panelist. Service Learning, International Baccalaureate program. February 19, 2011.

10. Sattler, Melanie. "Clearing the Air: Air Quality Problems and Solutions in the 21st Century," Environmental and Sustainability Studies Lecture Series, UT Arlington, Feb. 17, 2011.
11. Sattler, Melanie. "4 Tips to Tenure." Research and Creative Activity Faculty Support Session, UT Arlington, Feb. 17, 2011.
12. Rich, Alisa; Sattler, Melanie. "Monitoring and Sampling Techniques for Fugitive Air Emissions From Natural Gas Production Facilities in the Barnett Shale Formation," 2011 North American Environmental Field Conference: Advances and Innovations in Environmental Site Characterization, Sampling, Monitoring & Remediation Technology, San Diego, California, January 10-13, 2011.
13. Sattler, Melanie. "Assessing the Impact of Organic Air Pollutants from a Natural Gas Compressor Station." Arlington Conservation Council, November 10, 2010.
14. Sattler, Melanie. Panelist. "Regulations and Risks: What You Need to Know about the Barnett Shale." Tarrant County College Northeast Campus, Phi Theta Kappa panel discussion, October 20, 2010.
15. Sattler, Melanie. Panelist. "Fracking the Barnett Shale," League of Women Voters Arlington Area Public Forum, September 21, 2010.
16. Natchanok, Pala-En; Sattler, Melanie L. "On-Road Measurement of NO_x and CO₂ Emissions from Biodiesel Produced from Different Feedstocks." Student poster for the 103rd Annual Conference of the Air & Waste Management Association. Calgary, Alberta, Canada, June 2010.
17. Sattler, Melanie; Alavi, Kambiz; Chen, Victoria; Mattingly, Steve; Rogers, Jamie; Weatherton, Yvette; Afotey, Benjamin; Rani, Madhu. "Engineering Sustainable Engineers." International Symposium on Sustainable Systems and Technology Co-organized with the IEEE Society on Social Implications of Technology, Washington, D.C., May 2010.
18. Sattler, Melanie; Choi, Hyeok; Gangupomu, Roja; Kositkanawuth, Ketwalee; Billo, Rick; Dennis, Brian; MacDonnell, Fred; Priest, John. "Environmental Evaluation of UTA Solvent Extraction Process." Energy Researcher's Workshop – Meeting Energy Demands of the Future, sponsored by the UT System Energy Council, University of Texas at Dallas, May 19-20, 2010.
19. Sattler, Melanie "Integrating Sustainability into the Engineering Curriculum." ACES Symposium "Sustainability across the Curriculum," UT Arlington Annual Celebration of Excellence by Students (ACES), March 25, 2010.
20. Sumitsawan, Sulak; Timmons, Richard; Sattler, Melanie. "Photocatalytic Treatment of Volatile Organics in Air: Plasma Modified vs. Standard Titanium Dioxide," UT Arlington Annual Celebration of Excellence by Students (ACES), March 25, 2010.
21. Karanjekar, Richa; Gandhi, Arpita; Sattler, Melanie; Hossain, Sahadat; Chen, Victoria. "Estimating Renewable Energy Potential: An Improved Model for Bioreactor Landfill Gas Generation" (poster), UT Arlington Annual Celebration of Excellence by Students (ACES), March 25, 2010.
22. Phananimamai, P., J.M. Rosenberger, V.C.P. Chen, S. Kim, M.L. Sattler "Managing Selective Catalytic Reduction for Coal-fired Power Plants" INFORMS Optimization Society Conference on Energy, Sustainability, and Climate Change, Gainesville, FL., February, 2010.
23. Phananimamai, P., J.M. Rosenberger, V.C.P. Chen, S. Kim, M.L. Sattler "Managing Selective Catalytic Reduction for Coal-fired Power Plants" INFORMS Annual Conference, San Diego, CA., October, 2009.
24. Sule, Neelesh; Chen, Victoria; and Sattler, Melanie. "Assessing Control Strategies for Ground Level Ozone." Student poster for the 102nd Annual Conference of the Air & Waste Management Association. Detroit, MI, June 2009.
25. Athappan, Prabha, and Sattler, Melanie. "Adsorption Curve Fits for Landfill VOCs on Bituminous Coal Based and Coconut Shell Based Activated Carbon." Student poster for the 102nd Annual Conference of the Air & Waste Management Association. Detroit, MI, June 2009.
26. Rani, Madhu; Sattler, Melanie. "Removal of Butylene and Propylene Gas using Biofiltration", UT Arlington Annual Celebration of Excellence by Students (ACES), March 26, 2009.
27. Mattingly, Stephen P.; Sattler, Melanie L.; Bhatt, Hetal; Sumitsawan, Sulak; Pala-En, Natchanok; and Parthen Parikh. "A Model for Estimating Hydrocarbon and CO₂ Emission Reductions after

- th CRC (Coordinating Research Council) On-Road Vehicle Emissions
Workshop. San Diego, March 2009.
28. Sumitsawan, Sulak; Kalidindi, Sahithi Raj; Parikh, Parthen; Sattler, Melanie; Mattingly, Stephen P.; Ladd, H. Michael; and Jim Humphreys. "School Bus Emission Testing: Retrofit Device, Combustion Chamber Conditioner, Biodiesel." American Society of Civil Engineers, Texas Section Fall 2008 Conference. Dallas, TX. October 2008.
 29. Sattler, Melanie and Stephen Mattingly. "On-Road Measurement of Emissions Impact of Ethos Fuel Reformulator." 18th CRC (Coordinating Research Council) On-Road Vehicle Emissions Workshop. San Diego, March 2008.
 30. Mattingly, Stephen and Melanie Sattler. "On-Road Measurement of Emissions Impact of Clean Air Catalytic Converter." 18th CRC (Coordinating Research Council) On-Road Vehicle Emissions Workshop. San Diego, March 2008.
 31. Sattler, Melanie. "ISD Environmental Issues: Transportation Emissions & Indoor Air Quality." Duncanville ISD "Going Green" Conference, 2008.
 32. Sattler, Melanie. "Transportation and Air Quality: Interdisciplinary Education." Association of Environmental Engineering and Science Professors Biennial Research and Education Conference. Potsdam, New York. July 2005.
 33. Deshmukh, Namrata B. (My student – she inadvertently left my name off.) "Adsorption of hazardous air pollutants using nanoadsorbents." Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, 2005, 45(2), pp. 634-638.
 34. Devanathan, Sapna and Melanie Sattler. "Which Meteorological Conditions Produce Worst Case Concentrations from Area Sources?" UT Arlington Annual Celebration of Excellence by Students (ACES), March 2004.
 35. Sattler, Melanie. "Odor Abatement Evaluation and Master Plan." March 28, 2003, Garland, Texas, Texas Association of Municipal Sewage Agencies.
 36. Sattler, Melanie. "Air Stripping/Aeration System Basics." March 4, 2003. Texas A&M University, Texas Water Utilities Association's 85th Annual School.
 37. H. Troy Stuckey and Melanie L. Sattler. "Air Quality Community Outreach 2000: The North Central Texas Experience" (Poster). 2001 International Conference on Future Directions in Air Quality Research, sponsored by Air Resources Research Consortium, Air & Waste Management Association, Mid-Atlantic Regional Air Management Association, US Dept. of Energy, US Environmental Protection Agency. February 2001.
 38. Sattler, Melanie L. and Howard M. Liljestrang. "Rates of Photocatalytic Oxidation of Organic Compounds in Air over Titanium Dioxide." Society of Environmental Toxicology and Chemistry 17th Annual Meeting. November 1996.
 39. Sattler, Melanie L. and Howard M. Liljestrang. "Method for Predicting Rates of Photocatalytic Oxidation of Organic Compounds in Air over Titanium Dioxide." The Second International Conference on TiO₂ Photocatalytic Purification and Treatment of Water and Air. October 1996.
 40. Sattler, Melanie L. "Photocatalytic Oxidation of Gas-Phase Compounds over Titanium Dioxide." Texas Section American Society of Civil Engineers. April 1995.

Magazine Articles

1. Sattler, Melanie L. "Technologies for Reducing NO_x Emissions from Off-Road Diesel Vehicles: An Overview." *EM*, a publication of the Air & Waste Management Association for Environmental Managers. February 2002, pp. 20-29.
2. Sattler, Melanie and H. Troy Stuckey. "Dallas/Ft. Worth SIP Development: A Case Study in Local Involvement." *EM*, a publication of the Air & Waste Management Association for Environmental Managers. April 2001, pp. 32-36.

Reports

1. *A Carbon Extraction Process for Converting Southwestern Lignite to JP-8*. Report for Defense Advanced Projects Research Agency (DARPA), contract HR0011-09-C-0108. Richard E. Billo, Hyeok Choi, Brian H. Dennis, Frederick MacDonnell, John W. Priest, Melanie Sattler, University of Texas at Arlington, December 2010.
2. *Dispersion Modeling of Emissions from a Natural Gas Compressor Station: Ashford*. Melanie Sattler, Civil Engineering Department, University of Texas at Arlington, May 2010.
3. *Emission Trends for Go Green Fuel Hydrogen Enrichment Technology Systems: Dallas County School Bus Testing*. Melanie Sattler, Civil Engineering Department, University of Texas at Arlington, March 2010.
4. *Dispersion Modeling of Emissions from Natural Gas Compressor Stations: Town of Dish*. Melanie Sattler, Civil Engineering Department, University of Texas at Arlington, Dec. 2009.
5. *Task 5 Report: Dispersion Modeling*. Texas Commission on Environmental Quality Surface Coating Permit by Rule Protectiveness and Streamlining Review Project. Melanie Sattler and Yvette Weatherton, Civil Engineering Department, University of Texas at Arlington, August 2009.
6. *Task 4 Report 2: Modeling Protocol*. Texas Commission on Environmental Quality Surface Coating Permit by Rule Protectiveness and Streamlining Review Project. Melanie Sattler and Yvette Weatherton, Civil Engineering Department, University of Texas at Arlington, July 2009.
7. *Task 4 Report 1: PBR and NSR File Review Summary*. Texas Commission on Environmental Quality Surface Coating Permit by Rule Protectiveness and Streamlining Review Project. Melanie Sattler and Yvette Weatherton, Civil Engineering Department, University of Texas at Arlington, July 2009.
8. *Dispersion Modeling of Emissions from Natural Gas Compressor Stations*. Melanie Sattler, Civil Engineering Department, University of Texas at Arlington, May 2009.
9. *Optimizing Coal Plant NO_x Emissions at Luminant: Final Report*. Panaya Rattakorn, Passakorn Phananimamai, Jay Rosenberger, Victoria Chen, Seoung Bum Kim, Melanie L. Sattler, 2008.
10. Sattler, Melanie, Stephen P. Mattingly, Sahithi Raj Kalidinidi, Parthen Parikh and Sulak Sumitsawan. *School Bus Emission Testing of Ecosystem Fuel Vapor Enhancer Retrofit Device, Fuel Freedom International MPG-CAPS Combustion Chamber Conditioner and MPG-SULFRX Fuel Treatment and B20 Biodiesel*. Report prepared for the Duncanville ISD Emission Testing Program. (Department of

11. Brydia, Robert E., William H. Schneider, Stephen P. Mattingly, Melanie Sattler and Auttawit Upayokin. *Operations-Oriented Performance Measures for Freeway Management Systems*. Final report prepared under contract 0-5292 for the Texas Department of Transportation (FHWA/TX-08/0-5292-2), Research and Technology Transfer Office, Austin, Texas. (Texas Transportation Institute, Texas A&M University, Research Report 0-5292-2), February 2008.
12. *Emission Trends for Clean Air Associates' Pre-Combustion Retrofit Device Phase II Report – Diesel Truck*. North Central Texas Council of Governments' Aftermarket Technology and Fuel Additive Research Program. Melanie L. Sattler and Stephen P. Mattingly, December 2007.
13. *Emission Trends for Ethos[®] FR Fuel Additive Phase II Report – Dodge Charger*. North Central Texas Council of Governments' Aftermarket Technology and Fuel Additive Research Program. Melanie L. Sattler and Stephen P. Mattingly, December 2007.
14. *Emission Trends for Clean Air Associates' Pre-Combustion Retrofit Device Phase II Report – Dodge Charger*. North Central Texas Council of Governments' Aftermarket Technology and Fuel Additive Research Program. Melanie L. Sattler and Stephen P. Mattingly, December 2007.
15. Sattler, Melanie, Stephen P. Mattingly and Shruthi Satyanarayana. *ETHOS[®] FR Fuel Additive Phase I Report*. Report prepared for the North Central Texas Council of Governments' Aftermarket Technology and Fuel Additive Research Program. (Department of Civil and Environmental Engineering, University of Texas at Arlington, Research Report), October 2007.
16. Sattler, Melanie, Stephen P. Mattingly and Sri Harsha Kanukolanu. *Emission Trends for Clean Air Associates' Pre-Combustion Retrofit Device Phase I Report*. Report prepared for the North Central Texas Council of Governments' Aftermarket Technology and Fuel Additive Research Program. (Department of Civil and Environmental Engineering, University of Texas at Arlington, Research Report), October 2007.
17. Brydia, Robert E., William H. Schneider, Stephen P. Mattingly, Melanie Sattler and Auttawit Upayokin. *Using Operations-Oriented Performance Measures to Support Freeway Management Systems*. Interim report prepared under contract 0-5292 for the Texas Department of Transportation, Research and Technology Transfer Office, Austin, Texas. (Texas Transportation Institute, Texas A&M University, Research Report 0-5292-1), November 2006.

GRADUATE STUDENTS SUPERVISED

Ph.D. Students

1. Sulak Sumitsawan, Dec. 2011
Fluorination and Fluorocarbon Coating of TiO₂ by Pulsed Plasma Processing: Improved Photocatalytic Oxidation of Gaseous m-Xylene and Mercury
Current Position:
2. Alisa Rich, Aug. 2011
Air Emissions from Natural Gas Exploration and Mining in the Barnett Shale Geologic Reservoir
Current Position: President, Wolf Eagle Environmental Consulting
3. Benjamin Afotey, Dec. 2008
Statistical Approach to the Development of Microscale Model for Vehicle Exhaust Emission Estimation
Current Position: Lecturer, Department of Chemical Engineering, Kwame Nkrumah University of Science and Technology, Kumasi
4. Neelesh Sule, Dec. 2008
Assessing Control Strategies for Ground-Level Ozone
Current Position: Providence Engineering

M.S. Students

1. Madhu Rani, 2009
Biofiltration of Alkenes
Current Position: Ph.D. student, UTA
2. Annaprabha Athappan, 2008
Study of Adsorption Capacities for Landfill VOCs on Bituminous Coal Based and Coconut Shell Based Activated Carbon
Current Position: Ph.D. student, UTA
3. Jaya Nagireddi, 2007
Impact of a Fuel Additive or Retrofit Device on Vehicle Emissions
4. Shruthi Satyanarayan, 2006
Trends of Vehicular Emissions due to the Effect of Ethos FR as Fuel Additive
5. Sri Harsha Kanukolanu, 2006
Impact of a Pre-Combustion Retrofit Device on Vehicular Emissions: A Case Study
Current Position: Trinity Consultants, Louisiana
6. Rajashi Parikh, 2006
Effect of Signal Coordination as an Emission Reduction Measure for Vehicles
Current position: Consultant for Environ, California
7. Mita Upadhay, 2006

Elimination of VOCs, Toxics, and Odors from Wastewater Treatment Plants and Municipal Landfills via Photocatalytic Oxidation

Current Position: Trinity Consultants, Corpus Christi, TX

8. Kamesh Vyethavya Sista, 2006
Effects of Traffic Signal Retiming on Vehicular Nitrogen Oxide Emissions
Current Position: Sales position in India
9. Hetal Bhatt, 2005
Determination of Safe Roadway Buffer Width to Protect Human Health from Harmful NO_x Exposure
Current Position: Transportation Department, City of Arlington, TX
10. Divya Garrepalli, 2005
Removal of Carbonyl Sulfide using Compost Biofilter: Measurement of Removal Rates and Elimination Capacity in Conjunction with Hydrogen Sulfide
Current Position: City of Garland Landfill, Garland, TX
11. Namrata Deshmukh, 2005
Comparison of Adsorption Capacities of Nano-adsorbents with Conventional Activated Carbon for Volatile Organic Compounds
Current Position: Consultant with Parsons Brinckerhoff Quade & Douglas, Dallas, TX
12. Rupangi Munshi Faldu, 2005
Impacts of Signal Synchronization on Vehicular Emissions – An On-Board Emission Measurement Case Study
Current Position: Pioneer Natural Resources, Dallas, Texas
13. Sapna Devanathan, 2005
Determination of the Meteorological Conditions Responsible for the Worst Case Emissions from Area Sources using Two Dispersion Models – ISCST3 and AERMOD
14. C.P. Nawal, 2004
Removal of Carbonyl Sulfide Using Biofiltration
Current Position: Consultant with CDM, Inc., Fort Worth, TX
15. Sam Roskenberk, 2004
Removal of Carbonyl Sulfide Using Activated Carbon Adsorption Systems
Current Position: Bryant Consulting

M.E. Project Students

1. Shankar Vaidhyanathan, 2011
“Air Pollution Impacts of University Chemistry Labs: A Case Study”
2. Lince Merin, 2009
“Assessing the Mercury Health Risks Associated with Coal-Fired Power Plants: Impacts of Local Deposition”
3. Syeda Haque, 2008
“Critical Review of City of Arlington Greenhouse Gas Emissions Inventory”

Current Position: Air Quality Modeler with North Central Texas Council of Governments

4. Ketwalee Kositkanawuth, 2008
“A Case Study: Estimating Concentration of Hydrogen Sulfide Gas from Landfill A by Using AERMOD”
Current Position: Ph.D. Student in Environmental Engineering, UTA
5. Arpita Gandhi, 2007
“Comparison of ISC-ST3 and AERMOD Dispersion Modeling Results for a Cement Kiln”
Current Position: Ph.D. Student in Environmental Engineering, UTA
6. Rania Al Omari, 2006
“Effect of Mechanical Shaking on Adsorption of Volatile Organic Compounds onto Single Wall Nanohorns”
7. Zubair Awan, 2006
“Literature Review on Nanotechnology and the use of Nanomaterials and Nanoadsorbents relating to Air Pollution”
Current Position: E.I.T. with Montgomery Watson Harza, Walnut Creek, California
8. Dheeraj Gundelly, 2005
“Photocatalytic Oxidation of Ethylene”
9. Rajeshwar Reddy Kamidi, 2004
“Photocatalytic Oxidation Processes for NO_x”

SERVICE AND MEMBERSHIPS

Service to the Scientific and Engineering Community

- Air and Waste Management Association
 - 2011 Annual Conference Technical Program Principal Area Lead, Sustainability, Innovative Alternative/Renewable Energy Technologies; Vice-Chair, Renewable Energy and Clean Technologies Session.
 - Faculty advisor to the UTA Student Chapter (2005-present);
 - National Scholarship Committee Chair (2006-2008), Vice Chair (2004-2005), Member (2008-present);
 - Student Chapter Competition Award Judge, 2007, 2008;
 - Fort Worth Branch Treasurer (2004-2006), Secretary (2003) and Scholarship Chair (2001-2002);
- Luminant (formerly Texas Utilities) Environmental Research Program Research Steering Committee (2005-present)
- Peer reviewer for the following journals:
 1. *American Society of Agricultural and Biological Engineers*
 2. *American Society of Civil Engineers' (ASCE) Journal of Environmental Engineering*
 3. *American Society of Civil Engineers' (ASCE) Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*
 4. *American Society of Civil Engineers' (ASCE) Journal of Transportation Engineering*
 5. *Atmospheric Environment*
 6. *Atmospheric Pollution Research*
 7. *Canadian Journal of Chemical Engineering*
 8. *Chemometrics and Intelligent Laboratory Systems*
 9. *Chemosphere*
 10. *Environmental Engineering Science*
 11. *Environmental Modelling & Software*
 12. *Environmental Science & Technology*
 13. *Fuel*
 14. *Fuel Processing Technology*
 15. *IIE Transactions*
 16. *International Journal of Sustainable Transportation*
 17. *Journal of the Air & Waste Management Association*
 18. *Journal of Environmental Management*
 19. *Journal of Physical Chemistry*
 20. *Process Biochemistry*
 21. *Transportmetrica*
 22. *Water Practice*
- Grant proposal reviewer for the following entities:
 - California Energy Commission
 - Canada Foundation for Innovation
 - Environmental Protection Agency Small Business Innovative Research (SBIR) - Non-Road Diesel Engines
 - Maryland Industrial Partnerships Program
 - National Science Foundation
 - Natural Sciences and Engineering Research Council of Canada

US Civilian Research and Development Foundation

- Engineering presentations to junior high and high school students
 - *Expanding Your Horizons in Science & Engineering Workshop Presenter*: Presented hands-on air quality workshops to junior high girls at Expanding Your Horizons in Science and Mathematics conference, 1999-2005, 2007-2009.
 - *UTA Engineering Summer Camp Presenter*: Have introduced over 750 junior high students to civil engineering through summer camp activities, 2007-2010
- Student poster/paper judge
 - IEEE International Symposium on Sustainable Systems and Technology, 2010
 - UT Arlington Annual Celebration of Excellence by Students – 2009-2011
 - Air & Waste Management Association Annual Conference – 2004, 2005, 2011
- Other
 - Texas Environmental Research Consortium Scientific Advisory Committee (03-08) – Chair (06-08)
 - Fort Worth League of Neighborhoods Scientific/Technical Committee for recommending policy changes for gas drilling near schools to the Fort Worth Independent School District, 2010-11

Departmental and University Committee Memberships/Service

University Committees

President's Committee on Sustainability, 2007-
Status of Women and Minorities Committee, 2004-

Department Committees

Graduate Steering Committee, 2007-
Scholarships, Awards, and Research Committee, 2005-
State Employee Charitable Campaign chair, 2007-
ABET Senior Report Assessment Committee, 2004-2007
Graduate Studies Committee, 2003-
Ad Hoc Committees:

- GTA Guidelines, 2011
- Student Grade Change Request, 2008
- Workload Model, 2007
- Strategic Plan Staffing, 2007
- Environmental Graduate Program, 2006

Search Committees

College of Engineering Dean, 2010-2011
College of Engineering Opportunity Hire, 2009-2010
Civil Engineering Department
Staff Member, Chair, 2011
Structures Faculty Member, 2010-2011
Environmental Faculty Member, Chair, 2008-2009
Staff Member, 2009
Water Resources Faculty Member, 2006

Other Service

Engineering Freshman Interest Group (FIG) faculty mentor, 2008-
Environmental and Earth Sciences Graduate Studies Committee, 2003-
Mentor for UT Arlington Faculty-to-Faculty Mentoring Program, 2010-

Professional Memberships

Air and Waste Management Association
American Society for Engineering Education
Association of Environmental Engineering and Science Professors
Engineers Without Borders
Society of Women Engineers

AWARDS

UT Arlington Service Learning Faculty Fellow – 2010-11
Lockheed Martin Excellence in Engineering Teaching Award – UT Arlington College of Engineering, 2010
Selected to attend NSF Center for Sustainable Engineering workshop – Carnegie Mellon, 2009
UT Arlington Research Excellence Award – 2006-09
Outstanding Young Faculty Award – UT Arlington College of Engineering, 2006

Student Awards

Air & Waste Management Association National Scholarship – Richa Karanjekar, 2011; Arpita Gandhi, 2010; Roja Haritha Gangupomu, 2008
Solid Waste Association of North America National Scholarship – Richa Karanjekar, 2010, 2011
Air & Waste Management Association, North Central Texas Chapter Scholarship – Neelesh Sule, 2008
Air & Waste Management Association National Meeting, 2nd Place Ph.D. student poster, Richa Karanjekar and Arpita Gandhi, 2011
UT Arlington Annual Celebration of Excellence by Students (ACES) poster award, Richa Karanjekar and Arpita Gandhi, 2010