

CURRICULUM VITAE

of

Berrin Tansel, Ph.D., P.E., BCEE, D.WRE, F.ASCE, F.EWRI

CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT



EDUCATION

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|------------|--|---|-----------|
| PhD | University of Wisconsin-Madison | Civil and Environmental Eng. with Minor in Chemical Engineering | 1980-1985 |
| MS | University of Wisconsin-Madison, | Civil and Environmental Eng. | 1978-1979 |
| BS | Middle East Technical University, Ankara, Turkey | Chemical Engineering | 1972-1978 |

FULL-TIME ACADEMIC EXPERIENCE

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| 2009-Present | Professor, Civil and Environmental Engineering Department, Florida International University |
| 2009-2010 | Director, Center for Diversity in Engineering and Computing, Florida International University |
| 2002-2009 | Associate Director, Center for Diversity in Engineering and Computing, Florida International University |
| 1997-2001 | Director, Drinking Water Research Center, Florida International University |
| 1995-2009 | Associate Professor, Civil and Environmental Engineering Department, Florida International University |
| 1991-1995 | Assistant Professor, Civil and Environmental Engineering Department, Florida International University |
| 1990-1991 | Visiting Assistant Professor, Civil and Environmental Engineering Dept., Florida International University |
| 1986-1987 | Environmental Research Engineer, Center for Environmental Management, Tufts University, Massachusetts |

PART-TIME ACADEMIC EXPERIENCE

- 1983-1985 Instructor, University of Wisconsin-Madison, Department of Engineering Professional Development
- 1979-1984 Teaching Assistant, University of Wisconsin-Madison
- 1979-1984 Research Assistant, University of Wisconsin-Madison

NON-ACADEMIC EXPERIENCE

(National Research Laboratories, Consulting, and Other Engineering Practice)

- 2005 Summer NASA, Kennedy Space Center, Space Life Sciences Laboratory
- 2004 Summer NASA, Kennedy Space Center, Space Life Sciences Laboratory
- 1989-1990 Project Manager, Massachusetts Water Resources Authority, Boston, Massachusetts
- 1987-1989 Senior Project Engineer, PEER Consultants, P.C., Cambridge, Massachusetts
- 1993-2004 Technical Expert, South Florida Water Management District
- 1999-2000 Technical Expert, City of Opa-Locka, Florida
- 1992-1993 Consultant, Metcalf & Eddy, Miami, Florida
- 1990-1991 Consultant, City of Pompano Beach, Florida
- 1990-1991 Consultant, ERM-South, Miami, Florida
- 1984-1985 Consultant, SCS Engineers, Long Beach, California
- 1984-1985 Consultant, Soap and Detergent Association, Washington, D.C.

PATENTS

B. Tansel, N. Dizge, "Simultaneous Multi-Stage Submerged Membrane Bioreactor with Functionalized Modular Filtration Compartments," Provisional application (2010).

PUBLICATIONS IN DISCIPLINE

Publications in Professional Journals

* Undergraduate student who participated in research in Dr. Tansel's group

** Dr. Tansel's graduate student

*** Graduate student who participated in Dr. Tansel's research

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1. Tansel, B., Boglaienko, D.**, "Viscous effects on the interaction of granular particles with floating oils in water," *Science of the Total Environment*, Vol. 628–629, pp. 835–839, 2018. doi.org/10.1016/j.scitotenv.2018.02.124
 2. Tansel, B., Lunn, G., Monje, O., "Multiplicity of magnesium-ammonia-phosphate interactions, sensitivity of struvite crystallization to ion speciation and pH, and crystal decomposition mechanisms," *Chemosphere*, Vol. 194, pp. 504-514, 2018. 2018. doi: 10.1016/j.chemosphere.2017.12.004
 3. Tansel, B., "Morphology, composition and aggregation mechanisms of soft bioflocs in marine snow and activated sludge: A comparative review," *Journal of Environmental Management*, Vol. 205, pp. 231-243, 2018. doi: 10.1016/j.jenvman.2017.09.082.
 4. Boglaienko, D.**, Tansel, B., "Submergence patterns of floating crude oil by granular particles," *Chemical Engineering Journal*, Vol. 314, pp. 48-553, 2017. Doi: 10.1016/j.cej.2016.12.012
 5. Tansel, B., Surita, S.**, "Siloxanes in municipal solid waste: Historical and projected trends of paper and construction wood waste and associated siloxanes," *International Journal of Environmental Science and Technology*, Vol. 14, pp. 795–802, 2017. doi: 10.1007/s13762-2016-1186-x
 6. Boglaienko, D.**, Tansel, B., "Preferential positioning and phase exposure of granular particles at hydrophobic liquid-water interface," *Journal of Cleaner Production*, Vol. 142, pp. 2629-2636, 2017. http://dx.doi.org/10.1016/j.jclepro.2016.11.014
 7. Tansel, B., "From electronic consumer products to e-wastes: Global outlook, waste quantities, recycling challenges," *Environment International*, Vol. 98, pp. 35-45, 2017. http://dx.doi.org/10.1016/j.envint.2016.10.002
 8. Boglaienko, D.**, Tansel, B., "Wicking of light hydrophobic liquid phase from water by pulverized rubber: theoretical and experimental analyses," *Journal of Hazardous Materials*, Vol. 325, pp. 189-197, 2017. doi:10.1016/j.jhazmat.2016.11.076
 9. Tansel, B., Dizge, N., Tansel, D.Z., "Analysis of high resolution flux data to characterize fouling profiles of membranes with different MWCO under different filtration modes," *Separation and Purification Technology*. Vol. 173, pp. 200-208, 2017. doi.org/10.1016/j.seppur.2016.09.032
 10. Tansel, B., Boglaienko, D.**, "Self assembly, mobilization, and flotation of crude oil contaminated sand particles as granular shells on gas bubbles in water," *Science of the Total Environment*, Vol. 574, pp. 437-442, 2017. doi: 10.1016/j.scitotenv.2016.09.109
 11. Tansel, B., Rafiuddin, S.**, "Heavy metal content in relation to particle size and organic content of surficial sediments in Miami River and transport potential," *International Journal of Sediment Research*. Vol. 31, pp. 324-329, 2016. BT doi:10.1016/j.ijsrc.2016.05.004

12. Deveci, E.U., Dizge, N., Yatmaz, H.C., Tansel, B., "Degradation of recalcitrant textile dyes by coupling fungal and photocatalytic membrane reactors," *CLEAN Soil Air Water*, (in print). Vol. 44(10), pp. 1345-1351, 2016. doi: 10.1002/clen.201500838
13. Tansel, B., Surita, S.**, "Selectivity limitations of analytical methods using carbon sorption tubes for siloxanes in biogas samples," *Waste Management*, Vol. 52, pp. 122-129, 2016.
14. Süme, V., Tansel, B., "Capacity building for field inspections: A comprehensive assessment tool for monitoring structural integrity and sediment capture performance of T-head groins," *Ocean and Coastal Management*, Vol. 125, pp. 20-28, 2016.
15. Boglaienko, D.**, Tansel, B., "Partitioning of fresh crude oil between floating, dispersed and sediment phases: Effect of exposure order to dispersant and granular materials," *Journal of Environmental Management*, Vol. 175, pp. 40-45, 2016.
16. Inanloo, B.**, Tansel, B., Jin, X., Bernardo-Bricker, A., "Cargo Specific Accidental Release Impact Zones for Hazardous Materials: Risk and Consequence Comparison for Ammonia and Hydrogen Fluoride," *Environment, Systems and Decisions*, Vol. 36, Issue 1, pp. 20-33, 2016.
17. Boglaienko, D.**, Tansel, B., "Gravity induced densification of floating crude oil by granular materials: Effect of particle size and surface morphology," *Science of the Total Environment*, Vol. 556, pp. 146-153, 2016.
18. Boglaienko, D.**, Tansel, B., "Encapsulation of light hydrophobic liquids with fine quartz sand: property based characterization and stability in aqueous media with different salinities" *Chemical Engineering Science*, Vol. 145, pp. 90-96, 2016.
doi.org/10.1016/j.ces.2016.02.010
19. Inanloo, B.**, Tansel, B., "A Transportation Network Assessment Tool for Hazardous Material Cargo Routing: Weighing Exposure Health Risks, Proximity to Vulnerable Areas, Delay Costs and Trucking Expenses," *Journal of Loss Prevention in the Process Industries*. Vol. 40, pp. 266-276, 2016.
20. Inanloo, B.**, Tansel, B., Xia, J., Shams, K., Gan, A. "A decision aid GIS-based risk assessment and vulnerability analysis approach for transportation and pipeline networks," *Safety Science*, Vol. 84, pp. 57-66, 2016.
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22. Tansel, B., Arreaza, A.**, Tansel, D.Z., Lee, M.**, "Decrease in osmotically driven water flux (radial) and transport through mangrove roots after oil spills and effect of dispersants," *Marine Pollution Bulletin*, Vol. 98, pp. 34-39, 2015.
23. Kundral, S.**, Mudragada, R.**, Coro, E., Moncholi, M.**, Laha, S., Tansel, B., "Improving Settling Characteristics of Pure Oxygen Activated Sludge by Stripping of Carbon Dioxide," *Water Environment Research*, Vol. 87, No. 6, pp. 498-505, 2015.
24. Surita, S.**, Tansel, B., "Evaluation of a Full-Scale Water-Based Scrubber for Removing Siloxanes from Digester Gas," *Water Environment Research*, Vol. 87, No. 5, pp. 444-449, 2015.
25. Inanloo, B. **, Tansel, B., "Explosion Impacts during Transport of Hazardous Cargo: GIS-Based Characterization of Overpressure Impacts and Delineation of Flammable Zones for Ammonia," *Journal of Environmental Management*, Vol. 156, pp. 1-9, 2015.

26. Sizirici-Yildiz, B.**, Tansel, B., "Parametric Fate and Transport Profiling for Selective Groundwater Monitoring at Closed Landfills: A Case Study," *Waste Management*, Vol. 38, pp. 263-270, 2015.
27. Surita, S.**, Tansel, B., "Preliminary Investigation to Characterize Deposits Forming during Combustion of Biogas from Anaerobic Digesters and Landfills," *Renewable Energy*, Vol. 80, pp. 674-681, 2015.
28. Boglaienko, D. **, Tansel, B., "Instantaneous stabilization of floating oils by surface application of natural granular materials (beach sand and limestone)," *Marine Pollution Bulletin*, Vol. 91, pp. 107-112, 2015.
29. Surita, S.**, Tansel, B., "Response to Comments: Emergence and Fate of Cyclic Volatile Dimethylsiloxanes (D4, D5) in Municipal Waste Streams: Release Mechanisms, Partitioning and Persistence in Air, Water, Soil and Sediments," *Science of the Total Environment*, Vol. 505, pp. 1228-1231, 2015.
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31. Joo, S.H., Tansel, B. "Novel Technologies for Reverse Osmosis Concentrate Treatment: A Review" *Journal of Environmental Management*, Vol. 150, pp. 322-335, 2015.
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35. Surita, S.C., Tansel, B., "A Multiphase Analysis of Partitioning and Hazard Index Characteristics of Siloxanes in Biosolids," *Ecotoxicology and Environmental Safety*. Vol. 102, pp. 79-83, 2014.
36. Tansel, B., "Propagation of Impacts after Oil Spills at Sea: Categorization and Quantification of Local vs Regional and Immediate vs Delayed Impacts," *International Journal of Disaster Risk Reduction*. Vol. 7, pp. 1-8, 2014.
37. Tansel, B., Surita, S.**, "Oxidation of Siloxanes during Biogas Combustion and Nanotoxicity of Si-based Particles Released to the Atmosphere," *Environmental Toxicology and Pharmacology*. Vol. 37, pp. 166-173, 2014.
38. Surita, S.**, Tansel, B., "Emergence and Fate of Cyclic Volatile Dimethylsiloxanes (D4, D5) in Municipal Waste Streams: Release Mechanisms, Partitioning and Persistence in Air, Water, Soil and Sediments," *Science of the Total Environment*. Vol. 468-469, pp. 46-52, 2014.
39. Gudavalli, R.**, Katsenovich, Y., Wellman, D., Lagos, L.**, Tansel, B., "Quantification of Kinetic Rate Law Parameters for the Dissolution of Sodium Meta-autunite as a

- Function of Aqueous Bicarbonate Concentration,” *Environmental Chemistry*. Vol. 10, No. no. 6, 475-485, 2013.
40. Tansel, B., “Hydrologic Vulnerability and Preventing Domino Effect Consequences,” *Hydrology Current Research*, Vol. 4, Issue 4, editorial, 1000e113http://dx.doi.org/10.4172/2157-7587.1000e113. 2013.
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 42. Lee, M.**, Tansel, B., “Water Conservation Quantities vs Customer Opinion and Satisfaction with Water Efficient Appliances in Miami, Florida,” *Journal of Environmental Management*, Vol. 128, pp. 683-689, 2013.
 43. Tansel, B., Tansel, D., “Adhesion Strength and Spreading Characteristics of EPS on Membrane Surfaces during Lateral and Central Growth,” *Colloids and Surfaces B: Biointerfaces*, Vol. 111, pp. 594-599, 2013.
 44. Gudavalli, R.**, Katsenovich, Y., Wellman, Idarraga, M.**, Lagos, L., Tansel, B., “Comparison of the Kinetic Rate Law Parameters for the Dissolution of Natural and Synthetic Autunite in the Presence of Bicarbonate Ions,” *Chemical Geology*, Vol. 351, pp. 299–309, 2013.
 45. Sevimoglu, O., Tansel, B., “Composition and Source Identification of Deposits Forming in Landfill Gas (LFG) Engines and Effect of Activated Carbon Treatment on Deposit Composition,” *Journal of Environmental Management*, Vol. 128, pp. 300-305, 2013.
 46. Lee, M.**, Tansel, B., Balbin, M., “Urban Sustainability Incentives for Residential Water Conservation: Adoption of Multiple High Efficiency Appliances,” *Water Resources Management*, Vol. 27, 2531–2540, 2013.
 47. Tansel, B., Kumar Varala, P.**, Londono, V.**, “Solar Energy Harvesting at Closed Landfills: Energy Yield and Wind Loads on Solar Panels on Top and Side Slopes,” *Sustainable Cities and Society*, Vol. 8, pp. 42–47, 2013.
 48. Tansel, B., “Correlation between Iron Mobilization and Emergence of VOCs in Leachate at Old Landfills,” *Journal of Environmental Management*, Vol. 120, pp. 1-4, 2013.
 49. Sevimoglu, O., Tansel, B., “Effect of Persistent Trace Compounds in Landfill Gas on Engine Performance during Energy Recovery: A Case Study,” *Waste Management*, Vol. 33, No. 1, pp. 74-80, 2013.
 50. Tansel, B. “Value Added Refunctionalization of Landscapes: Tuning Dynamics of Land Use Cycles towards Sustainable Engineering Practices” (editorial), *Journal of Civil & Environmental Engineering*, 2013, doi:10.4172/2165-784X.1000e112.
 51. Cardoso, J.**, Tansel, B., Vassell, C., “Comparative Monitoring Study of Reverse Osmosis vs Lime Softening for THM Levels in Water Distribution System and Cul de Sacs,” *Desalination & Water Treatment*, Vol. 48, No.1-6, pp. 216-220, 2012.
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54. Sizirici, B.** , Tansel, B., "Improvement of Data Quality for Post-Closure Care of Landfills Using a Tiered Decision Matrix Approach Case Studies," *Waste Management and Research*, Vol. 30, No. 2, pp. 171-180, 2012.
55. Tansel, B., "Significance of Thermodynamic and Physical Characteristics on Permeation of Ions during Membrane Separation: Hydrated Radius, Hydration Free Energy and Viscous Effects," *Separation and Purification Technology*, Vol. 86, pp. 119-126, 2012.
56. Tansel, B., Vanmarcke, E., "Hurricanes and Insurance," Editorial, *ASCE Journal of Natural Hazards Review*, Vol. 12, No. 4, pp. 157, 2011.
57. Tansel, B., Sizirici, B.** , "Significance of Historical Hurricane Activity on Structural Damage Profile and Post Hurricane Population Fluctuation in South Florida Urban Areas," *ASCE Journal of Natural Hazards Review*, Vol. 12, No. 4, pp. 196-201, 2011.
58. Tansel, B., Fuentes, C.* , Sanchez, M.** , Predoi, K.* , Acevedo M.* , "Persistence Profile of Polyaromatic Hydrocarbons in Shallow and Deep Gulf Waters and Sediments: Effect of Water Temperature and Sediment-Water Partitioning Characteristics," *Marine Pollution Bulletin*, Vol. 61, No. 12, pp. 2659-2665, 2011.
59. Tansel, B., Pascual, B.** , "Removal of Emulsified Fuel Oils from Brackish and Fresh Water by Dissolved Air Flotation with and without Polyelectrolyte Use: Pilot Scale Investigation for Estuarine and Near Shore Applications," *Chemosphere*, Vol. 85, No. 7, pp. 1182-1186, 2011.
60. Lee, M.** , Tansel, B., "Influence of Residential Water Use Efficiency Measures on Household Water Demand: A Four Year Longitudinal Study," *Resources, Conservation and Recycling*, Vol. 55, No. 3, pp. 821-831, 2011.
61. Tansel, B., Sizirici, B.** , "Goal Based Waste Management Strategy to Reduce Persistence of Contaminants in Leachate at Municipal Solid Waste Landfills," *Environment, Development and Sustainability*, Vol. 13, No. 5, pp. 821-831, 2011.
62. George, G.** , Reed, S., Tansel, B., Gordon, G., "Growth Profile of *Chamaedorea cataractarum* (Cascade Palm) Seedlings with Different Colored Plastic Mulch," *Journal of Agricultural Science*, Vol. 3, No. 3, pp. 39-49, 2011.
63. Dizge N.** , Tansel, B., Sizirici, B.** , "Process Intensification with a Hybrid System: A Tubular Packed Bed Bioreactor with Immobilized Activated Sludge Culture Coupled with Membrane Filtration," *Chemical Engineering and Processing: Process Intensification*, Vol. 50, No. 8, pp. 766-772, 2011.
64. Lee, L.** ; Tansel, B., Balbin, M., "Goal Based Water Conservation Projections Based on Historical Water Use Data and Trends in Miami-Dade County," *Sustainable Cities and Society*, Vol. 1, No. 2, pp. 97-103, 2011.
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66. Tansel, B., Dizge, N.** , "Multi Objective Performance Analysis of Nanofiltration Process to Loading Parameters by Response Surface Approach," *Desalination*, Vol. 272, Nos. 1-3, pp. 164-169, 2011.
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73. Tansel, B., "A Delicate Balance and Test of Vulnerability," Editorial, *Water Environment Federation Research Journal*, Vol. 82, No. 9, pp. 771-771, 2010.
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77. Hempoonsert, J.**, Tansel, B., Laha, S. "Effect of Temperature and pH on Droplet Aggregation and Phase Separation Characteristics of Floccs Formed in Oil-Water Emulsions after Coagulation," *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Vol. 353, No. 1, pp. 37-42, 2010.
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- Compounds: A Review,” *Journal of Environmental Management*, Vol. 90, No. 1, pp. 95-100, 2009.
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8. Dispersion in Heterogeneous Geological Formations, B. Berkowitz, Ed., Book Review published in: Journal of the American Water Resources Association, Vol. 37, No. 3, pp. 760-761, 2001 (published review).

Teaching Materials

1. Tansel, B., J. T. Quigley. 1984. Problems for Wastewater Treatment Plant Design. Published by University of Wisconsin-Madison, Department of Professional Development, Engineering and Applied Science as a text book for the short course on wastewater treatment

plant design.

2. Berthouex, P. M., B. Tansel. 1984. Supplementary Material for CAPDET. Published by University of Wisconsin-Madison, Department of Engineering Professional Department as a text for the short course on CAPDET.
3. O'Leary, P., B. Tansel., R. Fero. 1987. Sanitary Landfill Design. Published by University of Wisconsin-Madison, Department of Professional Development, Engineering and Applied Science as a text book for the short course on Sanitary Landfill Design.

PRESENTED PAPERS, LECTURES, EXHIBITIONS, AND PERFORMANCES

Invited Presentations

1. Tansel, B. "Impacts of oil spills and treatment of contaminated media: Knowledge gaps and new technologies," University of South Florida, Tampa, Florida, March 27, 2015.
2. Tansel, B. "Women in Engineering: Strategies for Advancement," Signature Event: Women in Research Meeting, Miami, Florida, April 4, 2014.
3. Tansel, B. "Formation, Stability and Transport Characteristics of Emulsified Oils in Natural Environment," Participant at the *Science and Technology of Dispersants Relevant to Deep Sea Floor Oil Releases*, Washington, DC, September 22, 2010.
4. Tansel, B. "Promotion, Salary, and Tenure Policies," Moderator, Quality Education for Minorities, Quality Education for Minorities (QEM) Network, HSI Women in STEM, Las Vegas, Nevada, July 30-31, 2010.
5. Tansel, B. "Aiming for Excellence in STEM Education: Sustainable Outreach Programs for College Pipeline and Beyond," FIU, School of Computer Science and Information System Colloquium, January 29, 2010.
6. Tansel, B., "Partnerships for STEM Infrastructure Enhancement," Quality Education for Minorities, Quality Education for Minorities (QEM) Network, An Outreach Forum on Building STEM Research and Education Capacity at Hispanic-serving Institutions, Albuquerque, NM, September 25-26, 2009.
7. Kumar, V., Guerrero, F., Tansel, B., Savabi, R., "Affect of Hydro-physical Characteristics on Hydraulic Conductivity of Media Used for Containerized Agriculture Systems," USDA Subtropical Horticulture Research Station, Miami, FL, July 31, 2009.
8. Tansel, B., "Revegetation of Closed Landfills with Biofuel Crops: Analysis of Hydrogeological Parameters at Closed Landfills for Sustainable Production of Biofuel Crops," Presentation to State Regulatory Personnel and Technical Review Board of University of Florida Hinkley Center, Tallahassee, Florida, May 14, 2009.
9. Tansel, B., "Closed Landfills as Power Parks: Technical and Economic Feasibility of Solar Energy Harvesting at Florida's Closed Landfills," Presentation to State Regulatory Personnel and Technical Review Board of University of Florida Hinkley Center, Tallahassee, Florida, May 14, 2009.
10. Tansel, B., "Fouling Mechanisms of Thin-Film Membranes," University of South Carolina, Columbia, South Carolina, April 29, 2009.
11. Tansel, B., "Fouling Mechanisms of Thin-Film Membranes," Southern Methodist University, Dallas, Texas, April 23, 2009.

12. NSF/QEM I-cubed workshop, Quality Education for Minorities (QEM) Network, National Science Foundation (NSF) Innovation through Institutional Integration (I³) Effort Regional Outreach Workshop for Minority-serving Institutions, Atlanta, GA, March 13-14, 2009.
13. Tansel, B., Panel member and presenter on “Career Paths in Engineering,” Panel on “Career Paths: Overcoming Challenges,” Florida International University, Miami, Florida, November 7, 2008.
14. Tansel, B., “Engineering Outreach at Florida International University,” Florida Hispanic Yearbook Reception, Miami Beach, October 14, 2008.
15. Tansel, B. “Environmental Science and Engineering for Space Exploration,” Environmental Studies Seminar, Florida International University, Miami, FL, October 8, 2008.
16. Tansel, B., “Innovative Strategies for Math and Science Enrichment during Summer Programs,” ExxonMobil Bernard Harris Foundation, Fall Forum October 2, 2008, Houston, Texas.
17. Tansel, B., “Advancing the Educational, Research and Outreach Capacity in Engineering at Florida International University,” U.S. Department of Agriculture, Washington, DC, June 17, 2008.
18. Tansel, B., “Florida’s Infrastructure Report Card – An Overview,” American Society of Civil Engineers Student Chapter Meeting, Miami, FL, May 29, 2008.
19. Tansel, B., Featured Speaker, “Florida’s Infrastructure Report Card,” Joint Meeting of American Society of Civil Engineers Miami-Dade Branch and Society of Cuban Engineers, Miami, FL, May 22, 2008.
20. Panelist, “Women Engineers in Academia,” Society of Women Engineers 2008 Region D Conference, Miami, Florida, March 1, 2008.
21. Tansel, B., “Environmental Engineering for Space Applications,” St. Thomas University, Science under the Stars Series, Miami, Florida, November 28, 2007.
22. Tansel, B., Co-Host and Moderator, Green forum: Climate Issues, Miami, Florida, November 9, 2007.
23. Tansel, B., “Incorporating Math and Science into Summer Programs,” ExxonMobil Bernard Harris Foundation, Fall Forum October 8-10, 2007, Houston, Texas.
24. Tansel, B., Moderator and Host, Green forum: Water Issues, Miami, Florida, Aug 10, 2007.
25. Panelists, “Green as Gold: The New Gilded Age of EBiz,” WorldCity Connections Panel, Miami, Florida, - July 25, 2007.
26. Tansel, B., “Performance Based Decision System for Determining Post Closure Care (PCC) Period in Florida Landfills” Presentation to State Regulatory Personnel and Technical Review Board of University of Florida Hinkley Center, Gainesville, Florida, April 30, 2007.
27. Tansel, B., “Environmental Entrepreneurship Integration (E2I) to Engineering Curriculum,” Kauffman Campuses Invitation, Wake Forest University, Winston-Salem, North Carolina, November 30, 2006.
28. Tansel, B., “Skin and Thin Film Membranes: Process Applications and Functionality,”

Universidad del Este, Puerto Rico, June 19, 2006.

29. Tansel, B., “Performance Based Decision System for Determining Post Closure Care (PCC) Period in Florida Landfills” Presentation to State Regulatory Personnel and Technical Review Board of University of Florida Hinkley Center, Gainesville, Florida, April 30, 2006.
30. Tansel, B. “Integrated Evaluation of Membrane Bioreactor Technology-Management of Crew Wastewater: Concepts and Plans,” NASA, Biological Sciences Office Spaceport Engineering and Technology Directorate, John F. Kennedy Space Center, FL, June 2005.
31. Tansel, B. “Integrated Evaluation of Membrane Bioreactor Technology-Membrane Fouling Assessment” NASA, Biological Sciences Office Spaceport Engineering and Technology Directorate, John F. Kennedy Space Center, FL, August 2005.
32. Tansel, B. “Integrated Evaluation of Membrane Bioreactor Technology,” NASA, Biological Sciences Office Spaceport Engineering and Technology Directorate, John F. Kennedy Space Center, FL, June 2004.
33. Tansel, B. “Integrated Evaluation of Membrane Bioreactor Technology-Filtration Test Results” NASA, Biological Sciences Office Spaceport Engineering and Technology Directorate, John F. Kennedy Space Center, FL, August 2004.

TV Interviews

TV interview on water quality, Channel 4, September 28, 2012.

TV interview on water treatment and magnesium in drinking water, Channel 7, October 12, 2006.

Newspaper, Magazine and Other Media Coverage

1. “Preferential positioning and phase exposure of granular particles at hydrophobic liquid-water interface,” highlighted in Renewable Energy: Global Innovations, June 2017. <https://reginnovations.org/key-scientific-articles/preferential-positioning-phase-exposure-granular-particles-hydrophobic-liquid-water-interface/>
2. “Preliminary investigation to characterize deposits forming during combustion of biogas from anaerobic digesters and landfills,” highlighted in Renewable Energy Global Innovations, November, 2015. <https://reginnovations.org/bioenergy/preliminary-investigation-characterize-deposits-forming-during-combustion-of-biogas-anaerobic-digesters-landfills/>
3. “Magic Sand” Cleans up floating oil,” <http://oceanbites.org/magic-sand-cleans-up-floating-oil/>, Oceanbites, written by Caoxin Sun, March 2015.
4. “Around the Yard: What Do You Look At First On Your Soil Test?” <http://aroundtheyard.com/soil/what-you-look-first-your-soil-test-t10464-140.html>, March 2015.
5. “Siloxanes in MSW: Quantities in Waste Components, Release Mechanisms during Waste Decomposition and Fate in the Environment,” Talking... Trash, The Newsletter of the SWANA Florida Sunshine Chapter, <http://swanafloida.onefireplace.com/Resources/News/Talkin%20Trash/Talking%20Trash%20Fall%20Summer%202013.pdf>, Summer 2013.

6. "Solar Energy Harvesting at Closed Landfills," Talking... Trash, The Newsletter of the SWANA Florida Sunshine Chapter, <http://swanaflorida.onefireplace.com/Resources/News/Talkin%20Trash/Talking%20Trash%20Fall%20Summer%202013.pdf>, Summer 2013.
7. "Seven challenges for post closure landfills," http://www.ben-global.com/Waste/News/Seven_challenges_for_post_closure_landfills_9726.aspx, Jan 3, 2012.
8. "Emulsion Behavior and Oil Spill Clean Up," Go for It (www.egfi-k12.org), American Society for Engineering Education's outreach magazine for K-12.
9. "Emulsion Behavior and Oil Spill Clean Up Efforts in the Gulf," Chronicle of Higher Education, July 13, 2010.
10. "Hot Jobs: Environmental Engineering," interview by Miami Heard, November 16, 2009.
11. "FIU-US Army Corps Collaboration" videotaped interview, August 25, 2008.
12. "Middle school students team up with ExxonMobil engineers in science camp at FIU," News Release by Florida International University, July 8, 2008.
13. News Release by US Department of Agriculture, "USDA Selects 2008 Class of E. De La Garza Fellows," USDA Newsroom, June 26, 2008, USDA News Release No. 0158.08.
14. "Green Backed Business," press release on "Go Green with FIU," April 1, 2008, <http://wordpress.fiu.edu/gogreen/2008/04/01/article3/>
15. "Accomplished Professor Inspires Current, Future Engineering Students," The Beacon, Student Newspaper of Florida International University, March 13, 2008.
16. "FIU Tree Planting Ceremony to Commemorate the First Bachelor Degree Graduates of Bachelorate Degree in Environmental Engineering" November 30, 2007.
17. Miami Herald (July 5, 2007) about science enrichment camp and visit of former astronaut, surgeon, president of Harris Foundation Dr. Harris's visit to ExxonMobil Bernard Harris Summer Science Camp
18. Broward Times (June 29, 2007) about science enrichment camp and visit of former astronaut, surgeon, president of Harris Foundation Dr. Harris's visit to ExxonMobil Bernard Harris Summer Science Camp
19. Proclamation of Environmental Engineering Day in Miami-Dade County, Press Release on February 21, 2006.
20. "Debris from Hurricane Holds Lessons," Gainesville Sun, October 3, 1993.
21. Featured in Sarasota-Herald Tribune (October 4, 1993) "Professor Contemplates the Fate of Hurricane Debris," about research on structural waste management after hurricane Andrew.
22. Featured in Miami Herald (October 2, 1993) about research on structural waste management after hurricane Andrew.
23. Featured in Natural Hazards Observer, Volume 17, No. 3, January 1993.

FUNDED RESEARCH (including outreach grants)

As Project Director and Principal Investigator:

1. Miami Dade Water and Sewer Department, “Water Use Efficiency and Water Consumption Data Analysis, \$60,842.00, PI: B. Tansel. 2018-2019.
2. Miami Dade Water and Sewer Department, “Water Use Efficiency and Leak Detection,” \$91,141.00, PI: B. Tansel. 2018-2019.
3. Miami Dade Water and Sewer Department, “Central District Wastewater Treatment Dewatering Project,” \$ 58,240, PI: B. Tansel. 2018-2019.
4. Miami Dade Water and Sewer Department, “South District Wastewater Treatment Dewatering Project,” \$53,248, PI: B. Tansel. 2018-2019.
5. Miami Dade Water and Sewer Department, “Water Use Efficiency and Leak Detection,” \$68,933.00, PI: B. Tansel. 2016-2017.
6. NASA, Kennedy Space Center, “Ammonia Capture and Recovery System and Method for Removing Ammonia from a Wastewater Stream,” \$25,000. 2016-2017.
7. Miami Dade Water and Sewer Department, “Water Use Efficiency and Water Consumption Data Analysis,” \$77,343.00, PI: B. Tansel. 2015-2016.
8. Miami Dade Water and Sewer Department, “Central District Wastewater Treatment Dewatering Project,” \$50,750, PI: B. Tansel. 2015-2016.
9. Miami Dade Water and Sewer Department, “South District Wastewater Treatment Dewatering Project,” \$50,750, PI: B. Tansel. 2015-2016.
10. Hinkley Center for Solid and Hazardous Waste Management, “Siloxanes in Biogas: Formation and Effect on Biogas Quality and Energy Costs,” \$40,000, 2014-2015, PI: B. Tansel. 2014-2016.
11. Miami Dade Water and Sewer Department, “MDWASD Water Conservation Project” \$104,417, PI: B. Tansel. 2012-2014.
12. National Academy of Sciences, \$4,000. Eisenhower Fellowship.
13. Hinkley Center for Solid and Hazardous Waste Management, “Siloxanes in MSW: Quantities in Waste Components, Release Mechanisms during Waste Decomposition and Fate in the Environment,” \$30,000, 2012-2013, PI: B. Tansel.
14. STRIDE University Transportation Center, “K-12 Workforce Development in Transportation Engineering at FIU,” \$10,000, 2012-2014, PI: B. Tansel.
15. STRIDE University Transportation Center, “Consequence Based Route Selection for Hazardous Material Cargo: GIS-Based Time Progression of Environmental Impact Radius of Accidental Spills,” in collaboration with X. Jin, FIU, A. Amekudzi, Georgia Tech and N. Uddin, University of Alabama, Birmingham, \$40,000, 2012-2014, PI: B. Tansel.
16. University Transportation Center, “Reducing Interactive Service Interruptions in Linear Infrastructure Systems (Transportation, Water/Sewer, Power) by Synchronizing Schedules for Appropriate Maintenance Activities,” in collaboration with X. Jin, FIU, A. Amekudzi, Georgia Tech, \$50,000, 2012-2014, PI: B. Tansel.
17. Transport characteristics of emulsified PHC based oils before and after dispersant application, PI. B. Tansel, \$222,000, Tulane University, Consortium for the Molecular

- Engineering of Dispersant Systems (C-MEDS), Gulf of Mexico Research Initiative (GRI), 2011-2014.
18. Miami Dade Water and Sewer Department, "MDWASD Water Conservation Project" \$53,995, PI: B. Tansel. 2011-2012.
 19. National Science Foundation, "RAPID: Formation, Persistence and Mobility of Oil Emulsions after Major Spills at Sea," \$35,000, 2010-2011, PI: B. Tansel.
 20. National Science Foundation, "REU Supplement for RAPID: Formation, Persistence and Mobility of Oil Emulsions after Major Spills at Sea," \$4,250, 2010-2011, PI: B. Tansel.
 21. University of Florida, "The South East Alliance for Graduate Education and the Professoriate (SEAGEP) University of Florida," \$47,905, 2010-2011.
 22. Research Triangle Institute International, "GEAR UP Planning Grant," \$24,000, 2010-2011.
 23. Miami Dade Water and Sewer Department, "WWTP Field Studies - Sludge Thickening and Dewatering" \$36,000. PI: B. Tansel, Co-PIs: L. Prieto, S. Laha. 2010-2011.
 24. Florida Space Research Consortium, "Design Project Support," \$2,000, PI: B. Tansel, 2009-2010.
 25. Miami Dade Water and Sewer Department, "Gravity System Modeling-Invert Elevation Analysis" \$30,018. PI: B. Tansel, Co-PIs: L. Prieto, S. Laha. 2010-2011.
 26. National Science Foundation, "Advance Paid," \$56,643. PI: B. Tansel, Co-PIs: G. Roig, J. Miksovska, 2009-2012.
 27. Dade County Public Schools, "Florida Action for Minorities in Engineering (FLAME)," \$67,500. PI: B. Tansel. 2009-2010. PI: B. Tansel.
 28. Children's Trust, "ENLACE Miami," \$587,225. 2009-2010. PI: B. Tansel.
 29. Department of Education, "GEAR UP," \$ 1,177,560. 2009-2010. PI: B. Tansel, Co-PIs: G. Roig, A. Mirmiran, O. Mohammed, K. Yen, A. Caballero.
 30. Miami Dade Water and Sewer Department, "Pump Station Data Processing and Analysis" \$5,625. PI: B. Tansel. 2009-20010.
 31. Hinkley Center for Solid and Hazardous Waste Management, "Closed Landfills as Power Parks: Technical and Economic Feasibility of Solar Energy Harvesting at Florida's Closed Landfills," \$40,000, 2009-2010, PI: B. Tansel.
 32. Miami Dade Water and Sewer Department, "Operational Performance Testing and Field Work at MDWASD Wastewater Treatment Facilities" \$20,000. PI: B. Tansel, Co-PIs: L. Prieto-Portar, S. Laha. 2008-2009
 33. Miami Dade Water and Sewer Department, "Gravity System Modeling-Invert Elevation Analysis" \$15,205. PI: B. Tansel, Co-PIs: L. Prieto. 2008-2009.
 34. Miami Dade Water and Sewer Department, "MDWASD Water Conservation Project." \$350,000. PI; B. Tansel, Co-PIs: L. Prieto, M. Milani, F. Miralles-Wilhelm, I.N. Tansel. 2008-2011.
 35. NSF/FAMU, "Florida Georgia Louis Stokes for Minority Participation (FGLSAMP)," \$38,406. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
 36. Department of Education, "GEAR UP South Dade Empowerment Zone," \$6,557,778. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.

37. Junior Engineering Technical Society, "JETS/Unite," \$27,778. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
38. The Children's Trust, "Enlace Miami," \$1,047,050. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
39. Miami Coral Park Senior High, "Florida Action for Minorities," \$61,191. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
40. Flagler Development Group, Inc., "Everglades Research Experience II," \$7,500, PI: B. Tansel, 2008-2009.
41. Codina Group, "Everglades Research Experience III," \$3,500, PI: B. Tansel, 2008-2009.
42. NACME, "NACME Block Grant," \$300,000, PI: B. Tansel, Co-PI: G. Roig. 2008-2009.
43. Florida Center for Solid and Hazardous Waste, "Performance Based Decision System for Determining Post Closure Care (PCC) Period in Florida Landfills-Year 2," \$40,000, Principal Investigator, Co-PI: Debra Reinhart (University of Central Florida). 2007-2008
44. ExxonMobil and The Harris Foundation, "Bernard Harris Summer Science Enrichment Program," \$80,000, PI: B. Tansel, Co-PI: G. Roig, 2008-2009.
45. Florida Center for Solid and Hazardous Waste, "Performance Based Decision System for Determining Post Closure Care (PCC) Period in Florida Landfills," \$45,000. PI: B. Tansel (FIU), Co-PI: Debra Reinhart (University of Central Florida). 2006-2007.
46. Miami-Dade County Public Schools, "Math Matters Every Day (M2ED)," \$175,000, PI: B. Tansel, Co-PI: G. Roig, 2007-2008.
47. ExxonMobil and The Harris Foundation, "Bernard Harris Summer Science Enrichment Program," \$77,874, PI: B. Tansel, Co-PI: G. Roig, 2007-2008.
48. Kauffman Foundation/Pino Center, "Environmental Entrepreneurship Integration (E2I)," \$15,000. 2006-2008.
49. "DOE-FIU Science and Engineering Workforce Development Initiative," Department of Energy/ARC, (Subaccount/ARC), \$101,160, PI: B. Tansel, ARC PIs: D. Roelant, L. Lagos, 2007-2008.
50. FEC Inc., "Everglades Research Experience," \$15,000, PI: B. Tansel, Co-PI: A. Weberman, 2006-2012.
51. "Environmental Engineering Scholarships," Metcalf and Eddy, Inc., (\$1,000/year for 5 years) (Scholarship), 2006-2011.
52. "Summer Faculty Research Fellowship at NASA-KSC," American Society of Engineering Education (ASEE), \$14,000. 2005.
53. "Summer Faculty Research Fellowship at NASA-KSC," American Society of Engineering Education (ASEE), \$14,000. 2004.
54. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$150,000. 1996-2001.
55. Florida International University, Academy for the Art of Teaching, "Incorporation of Web-Based Learning and Information Access Tools to Introductory Environmental Engineering Classes," PI: B. Tansel, \$1,000. 1999-2000.
56. Department of Defense, Environmental Education and Training Consortium, Demonstration Grant, \$4,000. 1997-1998.

57. U.S. Environmental Protection Agency, "Dynamic Aspects of Metal Speciation in the Miami River Sediments in Relation to Particle Size Distribution and Chemical Heterogeneity," PI: B. Tansel, Co-PI: Dr. L. Thibodeaux, Louisiana State University, and Dr. J. Proni, NOAA, \$5,000, 1995-1996.
58. Department of Defense Advanced Research Projects Agency, "Acquisition of a Particle Dynamics Analyzer for Contaminant Mass Transfer and Reaction Kinetics Research," PI: B. Tansel, \$150,000. 1995-1997.
59. Department of Defense, Environmental Education and Training Consortium; Scholarship/Fellowship Program, PI: B. Tansel, \$66,240. 1995-1999.
60. Department of Defense, Environmental Education and Training Consortium, Demonstration Grant, PI: B. Tansel, \$15,000. 1995-1998.
61. U.S. Environmental Protection Agency, "Dynamic Aspects of Metal Speciation in the Miami River Sediments in Relation to Particle Size Distribution and Chemical Heterogeneity," PI: B. Tansel, Co-PI: Dr. L. Thibodeaux, Louisiana State University, and Dr. J. Proni, NOAA, \$58,500, 1995-1997.
62. Florida International University, Academy for the Art of Teaching, "Use of Computer Aided Process Design and Control Modules in Environmental Engineering," \$1,840. PI: B. Tansel, 1994-1995.
63. Miscellaneous Companies, "Waste Management Education and Research Consortium Competition," PI: B. Tansel, \$3,853. 1994-1997.
64. U.S. Army Research Office "Analysis of Pretreatment Technologies for Petroleum Hydrocarbons," PI: B. Tansel, \$125,000. 1993-1996.
65. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$100,000. 1993-1995.
66. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering on Hurricane Studies," Supplement, PI: B. Tansel, \$10,000. 1993-1994.
67. National Science Foundation, "Analysis of Structural Debris Generation and Disposal after Hurricane Andrew from Social, Technical and Institutional Perspectives," PI: B. Tansel, \$35,844. 1992.
68. U.S. Army Belvoir Research, Development and Engineering Center, "Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems," PI: B. Tansel, \$156,455. 1991-1993.
69. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$55,000. 1992.
70. Ford Foundation, Travel Grant. \$800. 1992.
71. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," Principal Investigator, \$55,000. 1991.
72. National Science Foundation, Travel Grant for the Sixth National Conference on Undergraduate Research. Minneapolis, Minnesota. March 26-28. \$570. 1992.
73. Department of Energy: Energy Related Equipment Grant, \$8,716., 1991.
74. Waste Management and Research Consortium Grant, \$250. 1991.

As Co-Principal Investigator:

1. Florida Department of Transportation, "Development of Standard Methodology to Measure Sulfate Ions in Post-Tensioned Grouts," \$199,056, K. Lau (PI), Co-PI: D. Garber, B. Tansel, 2018-2019.
2. Florida Department of Transportation, "Susceptibility of Bridge Steel and Concrete Components to Microbiological Influenced Corrosion (MIC) and Microbiological Influenced Deterioration (MID) in Florida," \$200,000, K. Lau (PI), Co-PI: B. Tansel, 2016-2018.
3. Eisenhower Fellowships, U.S. Department of Transportation. 2012-2014, \$80,000. Co-PIs: Tansel, B., Jolibois, S., Laha, S., Ali, H.
4. Miami Dade Water and Sewer Department, "Operational Performance Testing, Energy Conservation and Biosolids Management at MDWASD Wastewater Treatment Facilities" \$38,500. PI: L. Prieto-Portar, Co-PIs: S. Laha, B. Tansel. 2008-2009. (as part of the Miami-Dade Water and Sewer Department, "FIU-MDWASD Agreement," for \$550,000, PI: B. Tansel, Co-PI: L. Prieto-Portar. 2008-2012.)
5. General Dynamics Information Technology, "Degradation of Signal Quality of Structural Health Monitoring Systems with Time," \$115,170. PI: I.N. Tansel, Co-PI: B. Tansel. 2008-2009.
6. The Children's Trust, "ENLACE: Engaging Latino Communities for Education," \$704,953. PI: G. Roig, Co-PI: B. Tansel, 2008-2009.
7. Department of Education, "GEAR UP South Dade Empowerment Zone," (Training Grant) \$7,065,598. 2005-2011 at \$1,177,598 per year, currently in year 3. PIs: G. Roig, V. Prasad, K. Yen, O. Mohammed, B. Tansel.
8. U.S. Department of Transportation and South Carolina State, "Florida International University -Dade County Public School Summer Transportation Institute," \$40,398. 1998-1999. PIs: S. Jolibois, N. Attoh-Okine, S. Laha, B. Tansel, I. Ahmad.
9. North American Insulation Manufacturers Association, "Effects of HVAC Sanitation Processes on Indoor Air Quality of Residential Buildings-Phase II," \$1,000. 1995. PIs: I. Ahmad, J. Mitrani, B. Tansel.
10. Miscellaneous Private Organizations, "The Effects of HVAC Sanitation Processes on Indoor Air Quality of Residential Buildings - Phase II," \$1,000. 1995-1996. PIs: I. Ahmad, J. Mitrani, B. Tansel.
11. Florida Department of Education, "Effectiveness of HVAC Sanitation Processes on Indoor Air Quality of Residential Buildings-Phase II," \$24,857. 1994. PIs: I. Ahmad, J. Mitrani, B. Tansel.
12. North American Insulation Manufacturers Association, "Effects of HVAC Sanitation Procedures on Indoor Air Quality of Residential Buildings-Phase II (private)," \$5,000. 1994. PIs: I. Ahmad, J. Mitrani, B. Tansel.
13. JETS UNITE, Junior Engineering Technical Society (JETS), Inc., \$15,000. 1994.
14. JETS UNITE, Junior Engineering Technical Society (JETS), Inc., \$15,000. 1994.

15. U.S. EPA Graduate Education of Environmental Engineers and Scientists at FIU, \$100,000. 1993-1996.
16. University of Florida/Florida Department of Education, "Effectiveness of HVAC Sanitation Processes in Improving Indoor Air Quality," \$30,393. 1992. PIs: I. Ahmad, J. Mitrani, B. Tansel.
17. North American Insulation Manufacturers Association, "Effectiveness of Residential HVAC Sanitation Processes in Improving Indoor Air Quality," \$10,000. 1992. PIs: I. Ahmad, J. Mitrani, B. Tansel.
18. Florida Air Conditioning Contractors Association, "Effectiveness of HVAC Sanitation Processes in Improving Indoor Air Quality," \$350. 1992. PIs: I. Ahmad, J. Mitrani, B. Tansel.

As Key Personnel

1. Economic and Engineering Assessment for the TECO and Miami Dade Chiller Plant, \$45,000. 2006-2007, Metro-Miami Action Plan (MAAP) (Funds provided to ARC) PIs: R. Srivastava, A. Mujimdar.

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

Department

ASCE Student Chapter Award, 2006

School/College

1. Dean's Award for Mentorship, FIU College of Engineering and Computing, 2013
2. Dean's Award for Service, FIU College of Engineering and Computing, 2007
3. Recognized as advisor and mentor for minority student participation in Florida-Georgia Alliance for Minorities Program Conferences (FGAMP) (over 15 students have been advised/mentored during 1994-2006)
4. Recognized as mentor, FLAME Program (Florida Action For Minority Engineering Students) (mentored 6 students during 1993-2001)
5. Recognized as Mentor, NASA Sharp Plus - Florida International University Team (1995 Summer)

University

1. Faculty Award for Excellence in Teaching, Florida International University, 2006
2. Kauffman Professor of Entrepreneurship, Florida International University, 2006
3. Dissertation Advisor, Florida International University, 2005
4. Graduate Faculty, Florida International University, 2003

5. State University System of Florida, Teaching Incentive Award (TIP), 1997
6. Faculty Award for Excellence in Service, Florida International University, 1994
7. State University System of Florida, Teaching Incentive Award (TIP), 1994
8. Educational Leadership Enhancement Award, Florida International University, 1994
9. Faculty Award for Excellence in Research, Florida International University, 1993

National

National Recognitions:

1. ASCE, EWRI Outstanding Achievement Award, Water, Wastewater, Stormwater Council (2014)
2. Elected Fellow, Environment and Water Resources Institute (F. EWRI) (2013)
3. Elected Fellow, American Society of Civil Engineers (F. ASCE) (2007)
4. Elected Diplomat, Water Resources Engineer (D. WRE), American Academy of Water Resources Engineers (AAWRE) (2007)
5. Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers (AAEE) (2007)
6. ABET Program Evaluator, Engineering Accreditation Commission (2012)
7. Edmund Friedman Professional Recognition Award, American Society of Civil Engineers (2009)
8. U.S. Army Freedom Team Salute Commendation, U.S. Army-Manpower and Reserve Affairs (2009)
9. 2009 Outstanding Reviewer for the *Journal of Environmental Engineering* (American Society of Civil Engineers)
10. Kika E. De La Garza Fellow, United States Department of Agriculture (USDA), Washington, DC (2008)
11. Engineer of the Year, American Society of Civil Engineers Miami-Dade Branch (2007)
12. Research Project Recognition by NASA for Technology Development and Application Research as One of Highlighted Projects that Benefit the NASA-KSC and Nation through the Vision of Space, NASA, Kennedy Space Center, 2005 KSC-NASA Annual Report (Release Date: September 2006)
13. Keck Futures Fellow, The National Academies (2011)
14. Faculty Research Fellow, NASA, Kennedy Space Center, 2005
15. Faculty Research Fellow, NASA, Kennedy Space Center, 2004
16. Registered Professional Engineer
Florida (No. 46868, Environmental Engineering), 1993 (active)
Massachusetts (No. EN 35283-SA, Sanitary Engineering), 1990 (inactive)

New Hampshire (No. 7853, Sanitary Engineering and Chemical Engineering), 1990
(inactive)

Fellowships at National Laboratories and Federal Agencies:

1. United States Department of Agriculture (USDA), Kike E. De La Garza Fellow, Washington, DC, 2008
2. Faculty Research Fellow, NASA, Kennedy Space Center, 2005
3. Faculty Research Fellow, NASA, Kennedy Space Center, 2004

Who's Who Citations (National and International):

1. Who's Who Worldwide Registry
2. Who's Who in Engineering Education
3. Who's Who Among America's Teachers
4. Marquis Who's Who in American Education
5. Marquis Who's Who in America
6. Who's Who in the 21st Century
7. Marquis Who's Who in the World
8. Marquis Who's Who in America in Science and Engineering
9. Marquis Who's Who in Science and Engineering
10. Marquis Who's Who in America
11. Marquis Who's Who of American Women
12. Strathmore's Who's Who
13. American Men and Women of Science
14. International Who's Who of Professionals
15. Sterling Who's Who
16. Montclair Who's Who

Other National Awards and Honors:

1. US Department of Navy, Naval Air Station North Island and Naval Amphibious Base, Coronado, California, By Invitation, May 3-8, 2009.
2. Invited chapter author for Water Environment and Federation (WEF) Manual of Practice No. 8. ASCE Manual and Report on Engineering Practice No. 76. Design of Municipal Wastewater Treatment Plants. Chapter 20. Published by Water Environment Control Federation, October 1991. ISBN 0784403422, Currently in 5th Edition.
3. Fulbright Scholar (1978-1980)

Awards for Research Projects:

1. Water Conservation Awards for Excellence (2009) by Florida Section of the American Water Works Association:
Demand Management Research:
 Show of Excellence: High Efficiency Toilet Rebate Project
 Show of Excellence: Senior Retrofit Project
2. Public Information:
 Meritorious for “Every-Drop Counts” Poster Contest

Awards and Recognitions for Students Mentored and Advised:

1. Worlds Ahead Graduate Recognition (Spring 2017)
 Daria Boglaienko (Dr. Tansel’s PhD student) 2017
2. Best PhD Dissertation Student Award (Spring 2015)
 Sharon Surita (Dr. Tansel’s PhD student)
3. Dissertation Year Fellowships
 Daria Boglaienko (Dr. Tansel’s PhD student) 2016
 Bahareh Inanloo (Dr. Tansel’s PhD student) 2015
 Sharon Surita (Dr. Tansel’s PhD student) 2014
 Vivek Kumar (Dr. Tansel’s PhD student) 2012
 Mengshan Lee (Dr. Tansel’s PhD student) 2010
 Banu Sizirici (Dr. Tansel’s PhD student) 2009
4. Doctoral Evidence Acquisition Fellowship
 Vivek Kumar (Dr. Tansel’s PhD student) 2011
5. Daria Boglaienko, Gulf of Mexico Research Initiative (GoMRI) Scholar, 2014
6. National Science Foundation Travel Award
 Vivek Kumar (Dr. Tansel’s PhD student) “Hydro-physical Characteristics of Selected Media Used for Containerized Agriculture Systems,” 2011 NSF-CMMI Research and Innovation Conference, January 4-7, 2011, Atlanta, Georgia.
7. National Science Foundation Travel Award
 Banu Sizirici (Dr. Tansel’s PhD student) “Environmentally Conscious Management of Wastes Deposited in Municipal Solid Waste Landfills,” Engineering Sustainability 2009: Innovations that Span Boundaries, April 19-21, 2009, Pittsburgh, Pennsylvania
8. College of Engineering and Computing, Dean’s Award for Doctoral Students, Spring 2007
 Leonel Lagos (Dr. Tansel’s PhD Student)
9. ASCE Student Chapter participation at the 2006 Southeast Regional Conference (Gainesville, FL) for Visual Display, T-Shirt Design and Environmental Competitions (categories participated under leadership of Dr. Tansel):

1st Place – T-shirt Design: Representing “Civil engineers enhancing the constructed environment” and “School spirit”

1st Place – Visual Display: Construction of structure made from food of cans representing the Kuwait Water Towers.

3rd Place – Environmental Competition: Design of a concrete cylinder suitable for use as pavement material that would allow permeation of water but not oil to avoid contamination of subsurface.

10. Air and Waste Management Association, Florida Section's Student Poster Competition, Orlando, Florida, September 12-14, 2004
Zuhul Ozturk (Second Place, \$100 cash award) (Dr. Tansel's PhD Student)
11. FGAMP 2000 Student Research Paper Competition, 2000
Borja Garcia de Soto, Lazaro Mesa (Second Place) (Dr. Tansel's Undergraduate Research Students)
12. Florida Environmental EXPO Paper Competition, 1994
Beatrice Cazanias: First Place (\$500 cash award and free conference registration) (Dr. Tansel's Undergraduate Research Student)
13. Florida Environmental EXPO Paper Competition, 1993
Grace Marin: First Place (\$500 cash award and free conference registration) (Dr. Tansel's Undergraduate Research Student)
14. Water Environment Federation, National Student Paper Competition, 1992
Ronald Eyma, One of three winners selected nationwide for recognition and paper presentation at the National Conference in New Orleans, LA, 1992
(Dr. Tansel's MS student)
15. American Water Works Student Paper Competition, 1992
Li-Tai Bilbao: 2nd Place (Dr. Tansel's MS student)
16. Zenith Masters of Innovation Competition, 1992
Joseph Camuso: Certificate of Recognition (Dr. Tansel's Undergraduate Research Student)
17. Jose Villa Scholarship, 1992 for undergraduate research:
Michelle Diaz (Dr. Tansel's Undergraduate Research Student)
18. Jose Villa Scholarship, 1992 for undergraduate research:
Nestor Gomez (Dr. Tansel's Undergraduate Research Student)

OFFICES HELD IN PROFESSIONAL SOCIETIES, NATIONAL COUNCILS AND JOURNAL EDITORIAL BOARDS

Professional Society Memberships

1. American Society of Civil Engineers (ASCE) since 1988

2. Water Environment Federation (WEF) since 2003
3. Environmental and Water Resources Institute (EWRI)
4. Association of Environmental Engineering and Science Professors (AEESP)
5. American Academy of Water Resources Engineers (AAWRE)
6. American Academy of Environmental Engineers (AAEE)
7. American Water Works Association (AWWA)
8. American Society of Women Engineers (SWE)
9. American Society of Engineering Education (ASEE)
10. Tau Beta Pi
11. Chi Epsilon
12. Tau Chi Alpha

Editorial Boards

1. Editorial Board, Research Journal of Environmental Sciences, Academic Journals Inc., USA, 2015-present.
2. Honorary Editor, Ecology and Environmental Management, Brown Walker Press, 2011-present
3. Co-editor in Chief, Journal of Environmental Management, Elsevier, 2014-present
4. Associate Editor, Journal of Environmental Management, Elsevier, 2009-2014
5. Associate Editor, ASCE-Natural Hazards Review, 2012-present
6. Chief Editor, ASCE-Journal of Natural Hazards Review, Special Issue on Hurricanes and Insurance, 2011
7. Associate Editor, British Journal of Environment and Climate Change, ScienceDomain International, 2011-2012
8. Editorial Board, Global Journal of Environmental Science and Technology, Simplex Academic Publishers, 2010-2011 (inaugural, by invitation)
9. Editorial Board, Open Journal of Soil Science (OJSS), Scientific Research Publishing, 2011-present
10. Editorial Board, Open J. Inorganic Non-metallic Materials, Scientific Research Publishing, 2011-present
11. Editorial Board, Hydrology: Current Research (OMICS Publishing Group), 2010-present
12. Editorial Board, Journal of Waste Water Treatment & Analysis (OMICS Publishing Group), 2010-present
13. Editorial Board, Journal of Bioremediation & Biodegradation, OMICS Publishing Group, 2010-present
14. Editorial Board, Journal of Petroleum & Environmental Biotechnology, OMICS Publishing Group, 2010-present
15. Editorial Board, Journal of Civil & Environmental Engineering, OMICS Publishing Group,

- 2012-present
16. Editorial Board and Managing Editor, Water Environment Research, Water Environment Federation, 2008-2013
 17. Editorial Board, ASCE Journal of Energy Engineering, 2007-2012
 18. Editorial Board, Journal of Environmental Management, Elsevier, 2007-2009
 19. Editorial Board, Water, Air, Soil Pollution, Springer, 2007-2011
 20. Editorial Board, Water, Air, Soil Pollution: Focus, Springer, 2007-2011
 21. Editorial Board, Recent Patents on Chemical Engineering, Bentham Science Publishers, 2007-present (inaugural, by invitation)
 22. Guest Associate Editor, ASCE-Journal of Natural Hazards Review (ASCE) 2007.

National Councils

1. National Council of Examiners for Engineering & Surveying (NCEES) Environmental Engineering Professional Exam Committee (2008-present)
2. ABET Program Evaluator (PEV), Engineering Accreditation Commission (2012-present)
3. National Research Council (NRC) Program Quality Evaluator for Research PhD Programs in Civil Engineering, Environmental Engineering, Public Health Disciplines (2007)
4. Executive Board Member, NASA Florida Space Grant (2010-present)

Conference/Workshop Organization

1. Session organizer (for C-MEDS consortium), GoMRI Conference, Houston, TX, 2015
2. Track Chair; Water, Wastewater and Stormwater Council Track, 2014 World Environmental and Water Resources Congress, Portland, Oregon, June 1-5, 2014.
3. Track Chair; Water, Wastewater and Stormwater Council Track, 2013 ASCE-EWRI Congress, Cincinnati, Ohio, May 20-24, 2013.
4. Symposium Chair; Symposium on Desalination and Water Reuse, ASCE-EWRI Congress, Cincinnati, Ohio, May 20-24, 2013.
5. Track Chair; Water, Wastewater and Stormwater Council Track, 2012 ASCE-EWRI Congress, Albuquerque, New Mexico, May 20-24, 2012.
6. Track Chair, Water Pollution Engineering Committee, 2011ASCE-EWRI Congress, Palm Springs, California, May 22-26, 2011.
7. Conference Program Committee and Organizing Executive Committee of ASCE Council on Disaster Risk Management (CDRM), International Conference on Vulnerability and Risk Analysis and Management (ICVRAM 2010), Washington, DC.
8. Symposium Co-Chair and Organizing Committee of the ASCE Council on Disaster Risk Management (CDRM), "Hurricanes and Insurance Symposium" at the American Society of Civil Engineers ASCE 137th Annual Conference: Infrastructure for All Generations: Plan, Design, Build, Manage, Nov 1-3, 2007, Orlando, Florida.

9. Session Chair, 4th LACCEI (Latin American and Caribbean Consortium of Engineering Institutions) Conference, June 21-23, 2006, Mayagüez, Puerto Rico.
10. Organizing Committee, LACCEI Conference, Miami, Florida, 2004
11. Session Organizer, 2nd LACCEI (Latin American and Caribbean Consortium of Engineering Institutions) Conference, Miami, Florida, 2004.
12. Program Committee, 26th Annual Meeting of The Fine Particle Society (1997)
13. Session Chair, Hurricanes of 1993, ASCE Conference on Hurricanes of 1992 Conference, Miami, Florida, November 31-December 3, 1993.
14. Session Chair, 24th Annual Meeting of the Fine Particle Society, Chicago, Illinois, August 24-28, 1993

Advisory Board / Council / Committee / Task Force Memberships

1. Advisory Board Member, Florida Space Grant Consortium (FSGC) (2009-present)
2. American Academy of Environmental Engineers and Scientists (AAEES), Environmental Sustainability Committee (2014-present)
3. ASCE Environment and Water Resources Institute representative on Environmental Council for the Simon Freese award (2014-present)
4. American Society of Civil Engineers (ASCE), Florida Section Technical Affairs Committee (2014-present)
5. American Society of Civil Engineers (ASCE), EWRI Renewable Energy Technologies (RET) Task Committee (2014-present)
6. American Society of Civil Engineers (ASCE), EWRI Wastewater Technical Committee (2016-present)
7. American Water Works Association Task Force for AWWA Manual M 69: Inland Desalination and Concentrate Management, Team Leader for Chapter 7 (2014-present)
8. American Society of Civil Engineers (ASCE), Book of Knowledge Experiential Fulfillment Committee (BOKExFC), Corresponding Member (2009-present)
9. Chair, Council on Disaster Risk Management (CDRM) Outreach Committee, American Society of Civil Engineers (ASCE), (2008-present)
10. Dade County Department of Environmental Resources Management (DERM), Climate Change Advisory Task Force (CCATF) Greenhouse Gas Reduction, Energy and Green Building Subcommittee (2008-present)
11. Chair, ASCE Desalination and Water Reuse Committee (2011-present)
12. Chair, American Society of Civil Engineers (ASCE), EWRI Wastewater Technical Committee (2011-2016)
13. Vice Chair, ASCE Concentration Management Committee, Zero Liquid Discharge Charge (ZLD) Subcommittee (2008-present)
14. Voting member, ASCE/EWRI Oxygen Transfer Standards Committee, 2012-present
15. American Society of Civil Engineers (ASCE), Climate Change Task Committee (2008-present)

16. ExCom Member, Disaster Mitigation Committee of the Council on Disaster Risk Management (CDRM), American Society of Civil Engineers (ASCE), (2012-present)
17. Co-Chair, Terminology Committee, WaterReuse Florida (2007-present)
18. Standards Development Council, Environment Water Resources Institute (EWRI) Task Committee on Concentrate Management in Desalination (2007-present)
19. Disaster Mitigation Committee of the Council on Disaster Risk Management (CDRM), American Society of Civil Engineers (ASCE), (2006-present)
20. Environmental Effects Committee, American Society of Civil Engineers (ASCE) (2006-present)
21. Team Leader, Literature Review Committee, Water Environment Federation (WEF) (5 year term: 2003-2007)
22. The Infrastructure Security Partnership (TISP) Educational Outreach Committee, National Academic Consortium for Homeland Security (NACHS), (2006-present)
23. Outreach Planning Committee, World Environmental & Water Resources Congress 2007, May 15-19, 2007 (ASCE-EWRI), Tampa, Florida (May 15-18, 2007), Tampa, FL
24. Florida Infrastructure Report Card Team: ASCE-FL Chapter: Team Member for preparation of the Water Report Card; Team Member for preparation of the Wastewater Report Card, (2007-2008)
25. Water Environment Federation (WEF), Literature Review Committee (5 year term: 1995-1999)
26. American Society of Civil Engineers (ASCE), Council on Natural Disaster Reduction (1998-2002)
27. Joint IAWQ/IWSA Specialist Group on Environmental Engineering Education (1988-1996)
28. Steering Committee, National Research Conference on Hurricane Hazard Mitigation, March 19-21, Miami, Florida; 1993
29. The Universities Council on Water Resources (1992-1993)
30. WEF/ASCE Joint Task Force and Invited chapter author for Water Environment and Federation (WEF) Manual of Practice No. 8. ASCE Manual and Report on Engineering Practice No. 76. Design of Municipal Wastewater Treatment Plants. Chapter 20. Published by Water Environment Control Federation, October 1991.

Refereeing for Journal Publications

1. Referee, Environmental Science and Technology (ES&T)
2. Referee, Environmental Engineering and Management
3. Referee, Environmental Technology
4. Referee, Environmental Science and Pollution Research
5. Referee, Applied Microbiology and Biotechnology
6. Referee, Aquatic Toxicology
7. Referee, Aquatic Botany
8. Referee, Biofouling
9. Referee, Biochemical Engineering Journal

10. Referee, Bioresource Technology
11. Referee, Colloids and Surfaces
12. Referee, Chemosphere
13. Referee, Chemical Papers
14. Referee, Desalination
15. Referee, Geoderma
16. Referee, Energy & Fuels
17. Referee, Langmuir
18. Referee, Water
19. Referee, Water Research
20. Referee, Journal of Membrane Science (JMS)
21. Referee, Chemical Industry & Chemical Engineering Quarterly
22. Referee, Desalination and Water Treatment (DWT)
23. Referee, Separation and Purification Technology
24. Referee, Materials and Design
25. Referee, Fresenius Environmental Bulletin
26. Referee, Journal of Water, Air and Soil Pollution
27. Referee, ASCE, Journal of Environmental Engineering
28. Referee, ASCE, Journal of Urban Planning and Development
29. Referee, ASCE, Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management
30. Referee, ASCE, Journal of Computing in Civil Engineering
31. Referee, ASCE, Journal of Energy Engineering
32. Referee, ASCE, Journal of Natural Hazard Review
33. Referee, IEEE Transactions of Engineering Management
34. Referee, IEEE Transactions on Systems, Man, and Cybernetics
35. Referee, Recent Patents on Chemical Engineering
36. Referee, Journal of the American Water Resources Association (JAWRA)
37. Referee, Journal of the Air and Waste Management Association (JAWMA)
38. Referee, Journal of American Water Works Association (JAWWA)
39. Referee, Journal of Cleaner Production
40. Referee, Journal of Environment and Development
41. Referee, Journal of Environmental Management
42. Referee, Journal of Environmental Research and Public Health
43. Referee, Journal of Civil Engineering and Environmental Systems
44. Referee, Journal of Science of the Total Environment
45. Referee, Journal of Hazardous Materials
46. Referee, Industrial and Engineering Chemistry Research
47. Referee, International Journal of Environmental Analytical Chemistry
48. Referee International Journal of Environmental Science and Technology
49. Referee, International Journal of Computers & Mathematics with Applications
50. Referee, Brazilian Journal of Chemical Engineering
51. Referee, Central European Journal of Geosciences

International and National Advisory Board/Council / Review Committee

1. External evaluator for research proposals in Greece: Education, Life Long Learning, and Religious Affairs (2011-present)
2. King Fahd University of Petroleum and Minerals, e-review board (2010-present)
3. Israel Science Foundation (ISF) (2010)
4. Provost's Challenge Research Grants, American University of Sharjah, United Arab Emirates (2012)
5. Louisiana State University (LSU), Gulf Research Initiative (GRI) Block Grant for LSU (2012)

Grant Review and Grant Review Panel Activities (International)

1. Israel Science Foundation (ISF), research proposals
2. National Science Centre, Poland, research proposals
3. King Fahd University of Petroleum and Minerals, Deanship of Research Proposals
4. The National Hellenic Research Foundation (NHRF), research proposal

Grant Review and Grant Review Panel Activities (US)

1. U.S. Environmental Protection Agency, P3 Program, Water (2015, 2016, 2017)
2. U.S. Department of Agriculture, SBIR (Small Business Innovation Research; Air, water, soil panel) (2013)
3. National Science Foundation, Collaborative Research (2011)
4. U.S. Environmental Protection Agency, P3 Program, Built Environment & Materials and Chemicals (2011, 2012, 2014)
5. U.S. Environmental Protection Agency, P3 Program, Water & Agriculture (2011)
6. U.S. Environmental Protection Agency, EPA Science to Achieve Results (STAR) Fellowships Program (2009, 2010, 2012, 2013)
7. U.S. Environmental Protection Agency, STAR and GRO Program (2008)
8. National Science Foundation, 2007 NSF Graduate Research Fellowship Program
9. Institute for Public Health & Water Research (IPWR) (2005-2006)
10. National Science Foundation, 2003 NSF Graduate Research Fellowship Program
11. National Science Foundation, 2002 NSF Graduate Research Fellowship Program
12. U.S. Civilian Research Development Foundation (CRDF), 2002
13. National Science Foundation, 2000 NSF Graduate Research Fellowship Program
14. National Science Foundation, CAREER program (2000)
15. National Science Foundation, REU Program (various years 1996-2000)

16. U.S. Department of Agriculture, SBIR (Small Business Innovation Research) Program (1996)
17. U.S. Environmental Protection Agency, SBIR (Small Business Innovation Research) Program (1996-present, various years)
18. U.S. Environmental Protection Agency, EPSCoR Program (Experimental Program to Stimulate Competitive Research) (1996-present, various years)
19. USDA National Needs Fellowships Program Panel (2012)
20. USDA Multicultural Scholars Program

Student Chapter Sponsorship

1. Faculty Advisor, Florida Water Environment Federation (FES), FIU Chapter, 2013-present.
2. Faculty Advisor, Florida Engineering Society (FES), FIU Chapter, 2012-present.
3. Faculty Advisor, Society of Women Engineers (SWE), FIU Chapter, 2007-present.
4. Faculty sponsor for ASCE Student Chapter for participation at the Southeast Regional Conferences in various categories including Environmental competition in Environmental Competition, Visual Display Competition, T-Shirt Design Competition, Paper Competition (various years)
5. Guest Speaker, various events of Society of Women Engineers, FIU Student Chapter (various years)
6. Guest Speaker, various events of American Society of Civil Engineers, FIU Student Chapter (various years)
7. Career Day Activities at Miami-Dade Public Schools (MAST Academy, various Elementary Schools) (1994-2000)

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

Service to Community or Public

1. Advisory Board Member, Academy of Engineering, Miami Dade County Public Schools (2009-present)
2. Advisory Board Member, Scholarly Training in Urban Development for Youth (STUDY), City of North Miami, Community Redevelopment Agency (CRA) (2008-present)
3. Advisory Board Member, Yaeger Foundation Inc. (2007-present)
4. Advisory Board Member, Global Resource Cycle (GRC) (2007-present)
5. Board Member, Magnet Education Choice Association, Inc. (MECA) (2003-2006)
6. Advisor, Dade County Public Schools Science and Engineering Program Development (1995-present)
7. Member, City of Opa-Locka Brownfields Redevelopment Task Force (1998-2003)
8. Mentor, MAST Academy Career Day Activities (1994-2000)

9. Member, Amateur Radio Public Events Communications Team (including Odyssey of Mind, March of Dimes activities) (1991-2000)
10. Technical Advisor, South Florida Water Management District (1994-2003)
11. Member, Emergency Response Team, City of Coral Gables (1993-2005)
12. Advisor, Dade County Public Schools Engineering Magnet Program (1993-2005)
13. Member, New South Dade Planning Charrette (1994)
14. Member, Recruitment committee for judges for the Invention Convention at the Miami Youth Museum for invention ideas from gifted students (1993)

Judge at Outreach and Students Events

1. Future City Competition, January 17, 2004
2. FGLSAMP EXPO 2004 (Jan 31-Feb 1, 2004) (poster and paper presentations)
3. Future City Competition, January 25, 2003

Professional Service which Resulted in Remuneration

1. PE Review Course, Florida International University (various years, 1991-2007)
2. Technical Advisor, City of Pompano Beach, Florida (1990-1991)

UNIVERSITY SERVICE

Service to the Department

1. Undergraduate Program Director, Civil Engineering and Environmental Engineering Programs, 2011-present
2. Organizer, Tree Planting Ceremony to Commemorate the First Graduating Class of Environmental Engineering Baccalaureate Degree Program, December 3, 2007
3. Organizer, Proclamation of Environmental Engineering Day on February 21, 2007 by the Miami-Dade County Mayor Carlos Alvarez
4. Member, Undergraduate Program Advisory Program (UPAC) (2005-present)
5. Speaker for student recruitment activities (Engineering Orientation and Freshman Orientation classes) (1998-present)
6. Director, Environmental Engineering Graduate Program (2003-2005)
7. Lead Role in development and coordination of the 1st PE Review Course offered by the Department (2004)
8. Graduate Student Advisor and Coordinator (Environmental Eng. Program) (2000-2003)
9. Editor, Department Newsletter, 2002
10. Member, Undergraduate Policy Committee (1998-2002)
11. Member, EIT planning/preparation committee (1997-2002)

12. Member, College Teaching Incentive Program (TIP) committee (1999)
13. Coordinator, Laboratory Movement (1999)
14. Chair, Equipment committee (1997-1999)
15. Member, Committee for Feasibility Study for Ph.D. in Civil Engineering (1993-1997)
16. Member, Graduate Admissions Committee for Civil Engineering (1993-present)
17. Member, Graduate Program Committee for Civil Engineering (1994-present)
18. Coordinator and host for various meetings with outside visitors from Federal and State agencies including DOE, U.S. EPA, USDA
19. Graduate Student Advisor and Coordinator (Environmental Eng. Program) (1991-1992)

Service to the School/College

1. Engineering Core Instruction Committee, College of Engineering and Computing (2012-present)
2. Order of the Engineer Committee (2011-2012)
3. Strategic Planning Think Tank, Chair of Service and Community Outreach Subcommittee Committee, College of Engineering and Computing (2009-2010)
4. Budget Task Committee, College of Engineering and Computing (2008-2009)
5. Chair, Curriculum Committee, College of Engineering and Computing (2006-2007 Academic Year)
6. Coordinator for SACS Accreditation of BS degree program in Environmental Engineering (2007-present)
7. Coordinator for ABET Accreditation of BS degree program in Environmental Engineering (2006-present)
8. Member, Outreach Task Force, College of Engineering and Computing, (2006-present)
9. Vice Chair, Curriculum Committee, College of Engineering and Computing (2006-2005 Academic Year)
10. Vice Chair, Curriculum Committee, College of Engineering and Computing (2005-2004 Academic Year)
11. Secretary, Curriculum Committee, College of Engineering and Computing (2003-2004)
12. Member, Strategic Planning Committee, College of Engineering (2003-2004)
13. Member, Curriculum Core Committee, College of Engineering (1997-2002)
14. Member, Faculty Council, College of Engineering and Design (2001)
15. Speaker, Order of the Engineer Ceremony, 1999
16. Secretary, Order of the Engineer, National Link 140, 1998
17. Master of the Ceremonies, Order of the Engineer Ceremony, 1997
18. Member, Committee for Statewide Course Numbering System (1997)
19. Guest Speaker, Civil Engineering Honor Society Induction Ceremony, April 12, 1996

20. Member, College of Engineering Gateway Curriculum Committee (1992-1996)
21. Speaker, Order of the Engineer Ceremony, 1994
22. Chair, Faculty Council, College of Engineering and Design (1993)
23. Vice Chair, Faculty Council, College of Engineering and Design (1992)
24. Member, Faculty Council, College of Engineering and Design (1991)
25. Participant, Various recruitment activities and visits of Miami-Dade Community College (1991-present)

Service to the University

1. Faculty Senate, Senator (2014-2015)
2. 9/11 Anniversary Task Force - The Office of Global Learning Initiatives: Unity/Diversity: Reflecting on the Meaning of /11(2011-2012)
3. University Undergraduate Council (2011-2012)
4. Academic Conduct Committee (2010-2011)
5. Chair, Graduate Student Grievance Review Board (2010-2014)
6. FIU Faculty Senate Research Scholarship and Creative Activities Committee (2010-2013)
7. FIU Community Engagement Task Force (2010-present)
8. FIU Strategic Planning Committee, Student Success Subcommittee (2010-present)
9. FIU Faculty Senate Research Scholarship and Creative Activities Committee (2009-2010)
10. Graduate Student Grievance Review Board (2009-2010)
11. Pino Center for Entrepreneurship, Kauffman Professor Selection Committee, 2009.
12. Academic Policies and Personnel Committee (2008-2009)
13. Academic Conduct Committee (2008-2009)
14. Graduate Student Grievance Review Board (2008-2009)
15. Applied Research Center, Dept of Energy, DOE Fellows selection committee, 2008
16. Pino Center for Entrepreneurship, Kauffman Professor selection committee, 2008
17. Co-organizer and Moderator, Green Forum: Climate Issues (November 9, 2007)
18. Academic Policies and Personnel Committee (2007-2009)
19. Graduate Student Grievance Review Board (2006-2007)
20. Academic Conduct Committee (2006-2008)
21. Honorary Degree and Awards Committee (2007-2008)
22. FIU Faculty Senate Ad Hoc Research Council (2007-2008)
23. Applied Research Center, Department of Energy, DOE Fellows selection committee, 2007
24. Curriculum Committee (2006-2007)
25. Honorary Degree and Awards Committee (2006-2007)

26. Pino Center for Entrepreneurship, Kauffman Professor selection committee, 2007
27. Organizer and Host, Green Forum: Water Issues (August 10, 2007)
28. Coordinated all aspects of the BS Degree in Environmental Engineering, New Academic Program Proposal (2005-2006) (chair of planning committee and university-wide coordinator)
29. Coordinated all aspects of the BS Degree in Environmental Engineering, New Academic Program Feasibility Study (2005-2005) (chair of planning committee and university-wide coordinator)
30. Coordinated all aspects of the BS Degree in Environmental Engineering, New Academic Program Implementation (2005-2006) (chair of planning committee and university-wide coordinator)
31. Coordinated the Civil Engineering aspects of the Combined BS in Civil Engineering/MBA Program Proposal (2005-2006) (university-wide coordinator)
32. Coordinated all aspects of the Combined BS in Civil Engineering / MBA Program Implementation (Fall 2006) (university-wide coordinator)
33. Member, Honorary Degree and Awards Committee (2006-2007)
34. Chair, University-Wide Inter-disciplinary Committee on Environmental Engineering (2005-2006)
35. Member, University Curriculum Committee (2006-2007)
36. Member, FIU Faculty Senate Ad Hoc Research Council (2006-2007)
37. Member, University Sabbatical Committee (2001-2006)
38. Member, University Academic Policies Committee (1997-2006)
39. Member, University Graduate Grievance Committee (2005-2006)
40. Coordinator for two high schools in FIU's "Adopt a School" program (1998-2002)
41. Member, FIU Coordinating Council for School Partnerships (2002-present)
42. Director, Research Experiences for Undergraduates in Environmental Science and Engineering (REU) Site at FIU (1991-2002)
43. Faculty Advisor, Junior Engineering Society (JETS) Unite Activities (1993-2002)
44. Member, University Sabbatical Committee (1999-2000)
45. Member, University Sabbatical Committee (1998-1999)
46. Member of planning and implementation committee PhD in Civil Engineering (program was implemented in Fall 1998)
47. Member, University Teaching Incentive Program (TIP) policy and guidelines committee (1998)
48. Member, Honorary Degree and Awards Committee (1996-1997)
49. Member, Honorary Degree and Awards Committee (1995-1997)
50. Member, University Judicial Committee (1996-present)
51. Member, Honorary Degree and Awards Committee (1995-1996)

52. Ambassador, Civil and Environmental Engineering Department, United Way 1996
53. Member, Affirmative Action Committee (1993-1997)
54. Member, Academic Conduct Committee (1994-present)
55. Member, Environmental Council (1992-2000)
56. Member, University Research Committee (1994-1996)
57. Faculty Advisor, FIU Environmental Engineering Club (1991-1994)
58. Member, Solid Waste Steering Committee (1991-1995)
59. Member, Fulbright Advisory Committee (1994-1999)
60. Member, Environmental Technology and Waste Management Consortium Curriculum Development Committee (1993-1996)
61. Member, Gateway Coalition Human Potential Development Committee (1992-1996)
62. Marshal for Convocation and Graduation Ceremonies (1994-1995 Academic Year)
63. Mentor, NASA Sharp Plus - Florida International University Team (1995 Summer)
64. Mentor, FLAME Program (Florida Action For Minority Engineering Students) (1993-2001)
65. Mentor, Florida-Georgia Alliance for Minorities Program (FGAM) (1994-present)
66. Lecturer, Pre-College Enrichment Program (PREP) (1993-present)
67. Member, Search and Screening Committees for various positions in the university.