

CURRICULUM VITAE

Berrin Tansel, PhD, PE, BCEE, DWRE, FASCE, FEWRI

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EDUCATION

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

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).

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. Co-editor in Chief, Journal of Environmental Management, Elsevier, 2015-present
2. Editorial Board, Research Journal of Environmental Sciences, Academic Journals Inc., USA, 2015-present.
3. Honorary Editor, Ecology and Environmental Management, Brown Walker Press, 2011-present
4. Associate Editor, Journal of Environmental Management, Elsevier, 2009-present
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)

National awards and Recognitions

1. Elected Fellow, Environment and Water Resources Institute (F. EWRI) (2013)
2. Elected Fellow, American Society of Civil Engineers (F. ASCE) (2007)
3. Elected Diplomate, Water Resources Engineer (D. WRE), American Academy of Water Resources Engineers (AAWRE) (2007)
4. Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers (AAEE) (2007)
5. ABET Program Evaluator, Engineering Accreditation Commission (2012)
6. Edmund Friedman Professional Recognition Award, American Society of Civil Engineers (2009)
7. U.S. Army Freedom Team Salute Commendation, U.S. Army-Manpower and Reserve Affairs (2009)
8. ASCE, EWRI Outstanding Achievement Award, Water, Wastewater, Stormwater Council (2014)
9. 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)
10. 2009 Outstanding Reviewer for the *Journal of Environmental Engineering* (American Society of Civil Engineers)
11. Kika E. De La Garza Fellow, United States Department of Agriculture (USDA),

Washington, DC (2008)

12. Keck Futures Fellow, The National Academies (2011)
13. Faculty Research Fellow, NASA, Kennedy Space Center, 2005
14. Faculty Research Fellow, NASA, Kennedy Space Center, 2004
15. Engineer of the Year, American Society of Civil Engineers Miami-Dade Branch (2007)
16. 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)

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. Who's Who in the 21st Century
6. Marquis Who's Who in the World
7. Marquis Who's Who in America in Science and Engineering
8. Marquis Who's Who in Science and Engineering
9. Marquis Who's Who in America
10. Marquis Who's Who of American Women
11. Strathmore's Who's Who
12. American Men and Women of Science
13. International Who's Who of Professionals
14. Sterling Who's Who
15. Montclair Who's Who

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

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

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, 2011 ASCE-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 Water Works Association Task Force for AWWA Manual M 69: Inland Desalination and Concentrate Management, Team Leader for Chapter 7 (2014-present)
6. American Society of Civil Engineers (ASCE), Book of Knowledge Experiential Fulfillment Committee (BOKEExFC), Corresponding Member (2009-present)
7. Chair, Council on Disaster Risk Management (CDRM) Outreach Committee, American Society of Civil Engineers (ASCE), (2008-present)
8. Dade County Department of Environmental Resources Management (DERM), Climate Change Advisory Task Force (CCATF) Greenhouse Gas Reduction, Energy and Green Building Subcommittee (2008-present)
9. Chair, ASCE Desalination and Water Reuse Committee (2011-present)
10. Chair, Wastewater Technical Committee (2011-present)
11. Vice Chair, ASCE Concentration Management Committee, Zero Liquid Discharge Charge (ZLD) Subcommittee (2008-present)
12. Voting member, ASCE/EWRI Oxygen Transfer Standards Committee, 2012-present
13. American Society of Civil Engineers (ASCE), Climate Change Task Committee (2008-present)
14. ExCom Member, Disaster Mitigation Committee of the Council on Disaster Risk Management (CDRM), American Society of Civil Engineers (ASCE), (2012-present)
15. Co-Chair, Terminology Committee, WaterReuse Florida (2007-present)
16. Standards Development Council, Environment Water Resources Institute (EWRI) Task Committee on Concentrate Management in Desalination (2007-present)
17. Disaster Mitigation Committee of the Council on Disaster Risk Management (CDRM), American Society of Civil Engineers (ASCE), (2006-present)
18. Environmental Effects Committee, American Society of Civil Engineers (ASCE) (2006-present)
19. Team Leader, Literature Review Committee, Water Environment Federation (WEF) (5 year term: 2003-2007)
20. The Infrastructure Security Partnership (TISP) Educational Outreach Committee, National Academic Consortium for Homeland Security (NACHS), (2006-present)
21. Outreach Planning Committee, World Environmental & Water Resources Congress 2007, May 15-19, 2007 (ASCE-EWRI), Tampa, Florida (May 15-18, 2007), Tampa, FL

22. 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)
23. Water Environment Federation (WEF), Literature Review Committee (5 year term: 1995-1999)
24. American Society of Civil Engineers (ASCE), Council on Natural Disaster Reduction (1998-2002)
25. Joint IAWQ/IWSA Specialist Group on Environmental Engineering Education (1988-1996)
26. Steering Committee, National Research Conference on Hurricane Hazard Mitigation, March 19-21, Miami, Florida; 1993
27. The Universities Council on Water Resources (1992-1993)
28. 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.

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., Surita, S.**, "Selectivity limitations of analytical methods using carbon sorption tubes for siloxanes in biogas samples," *Waste Management*. Vol. 52, pp. 122-129, 2016.
 2. 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.
 3. 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.
 4. 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.
 5. 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.
 6. 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.
<http://dx.doi.org/10.1016/j.ces.2016.02.010>

7. 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.
8. 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.
9. Boglaienko, D., Tansel, B., Sukop, M., "Granular encapsulation of light hydrophobic liquids (LHL) in LHL-salt water systems: Particle induced densification with quartz sand," *Chemosphere*, Vol. 144, pp. 1358-1364, 2016.
10. 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.
11. 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.
12. 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.
13. 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.
14. Sizerici-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.
15. 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.
16. 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.
17. 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.
18. Surita, S.**, Tansel, B., "Contribution of siloxanes to COD loading at wastewater treatment plants: Phase transfer, removal, and fate at different treatment units," *Chemosphere*, Vol. 122, pp. 245-250, 2015.
19. Joo, S.H., Tansel, B. "Novel Technologies for Reverse Osmosis Concentrate Treatment: A Review" *Journal of Environmental Management*, Vol. 150, pp. 322-335, 2015.
20. Tansel, B., Surita, S.**, "Differences in Volatile Methyl Siloxane (VMS) Profiles in Biogas from Landfills and Anaerobic Digesters and Energetics of VMS Transformations," *Waste Management*, Vol. 34, Issue 11, pp. 2271-2277, 2014.
21. Mudragada, R., Kundral, S., Coro, E., Moncholi, M.**, Laha, S., Tansel, B.,

- “Phosphorous Removal during Sludge Dewatering to Prevent Struvite Formation in Sludge Digesters by Full Scale Evaluation,” *Journal of Water Process Engineering*, Vol. 2, pp. 37–42, 2014.
22. Tansel, B., Lee, M.**, Berbakov, J.*, Tansel, D.Z., Koklonis, U.*, “Dispersion of Louisiana Crude Oil in Salt Water Environment by Corexit 9500A in the Presence of Natural Coastal Materials,” *Estuarine, Coastal and Shelf Science*, Vol. 143, pp. 58-64, 2014.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. 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.
 28. 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.
 29. Tansel, B., Lee, M.**, Tansel, D.Z.*, “Comparison of Fate Profiles of PAHs in Soil, Sediments and Mangrove Leaves by QSAR and QSPR,” *Marine Pollution Bulletin*, Vol. 73, pp. 258-262, 2013.
 30. 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.
 31. 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.
 32. 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.
 33. 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.

34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. Öztürk, Z.**, Tansel, B., Sukop, M., Katsenovich, Y., Laha, S., “Highly Organic Natural Media as Permeable Reactive Barriers: TCE Partitioning and Anaerobic Degradation of in Eucalyptus Mulch and Compost,” *Chemosphere*, Vol. 89, No. 6, pp. 665-671, 2012.
41. Lee, M.**, Tansel, B., “Life Cycle Based Analysis of Demands and Emissions for Residential Water-Using Appliances,” *Journal of Environmental Management*, Vol. 101, No. 6, pp. 75-81, 2012.
42. 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.
43. 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.
44. Tansel, B., Vanmarcke, E., “Hurricanes and Insurance,” Editorial, *ASCE Journal of Natural Hazards Review*, Vol. 12, No. 4, pp. 157, 2011.
45. 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.
46. 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.
47. 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.

48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. Sizirici, B.**, Tansel, B., Kumar, V.** "Knowledge Based Ranking Algorithm for Comparative Assessment of Post Closure Care Needs of Landfills," *Waste Management*, Vol. 31, No. 6, pp. 1232-1238, 2011.
54. 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.
55. Pant, P.**, Allen, M., Tansel, B., "Mercury Contamination in the Riparian Zones along the East Poplar Creek at Oak Ridge," *Ecotoxicology and Environmental Safety*, Vol. 74, No. 3, 467-472, 2011.
56. Pant, P.**, Allen, M., Tansel, B., "Mercury Uptake and Translocation in Impatiens Walleriana Plants Grown in the Contaminated Soils from Oakridge," *International Journal of Phytoremediation*, Vol. 13, No. 2, 168-176, 2011.
57. Tansel, B., Dizge, N.***, "Competitive Effects and Interactions during Sorption of SMP fractions on Activated Carbon: Response Surface Approach for Visualization of Sorption Profiles," *Journal of Environmental Management*, Vol. 92, No. 2, pp. 596-602, 2011.
58. Dizge, N.***, Tansel, B., "Multiparametric Investigation of Competitive and Noncompetitive Sorption Characteristics of SMP Fractions (Carbohydrate and Protein) on Activated Carbon," *Journal of Hazardous Materials*, Vol. 185, Nos. 2-3, pp. 996-1004, 2011.
59. Kumar, V.**, Guerrero, F.M.**, Tansel, B., Savabi, M.R., "Hydro-physical Characteristics of Selected Media Used for Containerized Agriculture Systems," *Agricultural Water Management*, Vol. 98, No. 2, pp. 314-320, 2010.
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Poster Presentations

1. Tansel, B., Surita, S., "Siloxanes in biogas and operational challenges at biogas to energy facilities," 2016 World Environmental and Water Resources Congress, West Palm Beach, FL, May 22-26, 2016.
2. Boglaienko, D., Tansel, B., "Aggregation and submergence behavior of floating hydrophobic liquids by fine quartz sand," 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, Florida, February 1-4, 2016.
3. Boglaienko, D., Tansel, B., "Stability of submerged crude oil and petroleum hydrocarbon aggregates over time," 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, Florida, February 1-4, 2016.
4. Boglaienko, D., Tansel, B., "Capturing floating oils with floating granular materials: Sorptive carpets," 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, Florida, February 1-4, 2016.
5. Tansel, B., Boglaienko, D., "Fast and effective capture of floating crude oils with natural materials by granular aggregation," Proceedings of the 2015 World Environmental and Water Resources Congress, Austin, Texas, May 17-21, 2015.
6. Tansel, B., Inanloo, B., Jin, X., Shams, K., Gann, A., "Interactive Vulnerabilities of Infrastructure Networks: A GIS-Based Integrated Asset Management Planning Tool for Pipelines and Transportation Networks," Proceedings of the 2015 World Environmental and Water Resources Congress, Austin, Texas, May 17-21, 2015.
7. Inanloo, B., Tansel, B., "A Multi-Criteria Routing and Scheduling Decision Tool for Transporting Hazardous Cargo: Day Time and Night Time Atmospheric Conditions, Crash Rates, and Delay Times," Transportation Research Forum, Atlanta, Georgia, March 12-14, 2015.
8. Inanloo, B., Tansel, B., "Integrated Quantitative Vulnerability Assessment for Colocated Infrastructure Networks: Comparison of Reactive and Proactive Maintenance Strategies," Transportation Research Forum, Atlanta, Georgia, March 12-14, 2015.
9. Inanloo, B., Tansel, B., "Active Transport Infrastructure Investment Decision Framework and GIS-Based Cost-Benefit Analysis: A Case Study," Transportation Research Forum, Atlanta, Georgia, March 12-14, 2015.
10. Boglaienko, D., Tansel, B., "Natural Granular Materials as a New and Effective Floating Crude Oil Treatment Method," 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, Texas, February 16-19, 2015.
11. Boglaienko, D., Tansel, B., "Dispersant Effectiveness of Corexit 9500A for Fresh/Weathered Crude Oil and for Some Aliphatic/Aromatic Compounds of Crude," 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, Texas, February 16-19, 2015.
12. Boglaienko, D., Tansel, B., "Comparative Analysis of Floating Crude Oil Removal by Capturing it with Natural Material vs Dispersion of Oil with Corexit 9500A in Presence and Absence of Granular Particles," 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, Texas, February 16-19, 2015.
13. Inanloo, B., Tansel, B., Jin, X., "A Framework for Hazardous Tanker Truck Routing: Consideration of Health Risk, Transportation and Congestion Costs," TRB 94th Annual Meeting, Washington, D.C., January 11-15, 2015.

14. Wipfli, C., Tansel, B., "Airport-Intercity Rail Connectivity at Major U.S. Airports and the Factors that Influence Ridership," TRB 94th Annual Meeting, Washington, D.C., January 11-15, 2015.
15. Surita, S., Tansel, B., "Estimation of Siloxanes Entering Municipal Solid Waste from Wastewater Treatment Plants," Solid Waste Association of North America Florida Sunshine Chapter (SWANA 2014), Bonaventure Resort, Weston, Florida, July 27-29, 2014.
16. Boglaienko, D., Tansel, B., "Weathering Impact on Dispersion Effectiveness of Corexit Dispersants," FIU, College of Engineering and Computing, CEE Graduate Research Day on February 21, 2014.
17. Inanloo, B., Tansel, B., "Comparison of Explosion vs. Health Impact Zones after Accidental Release of Hazardous Materials during Transport," FIU, College of Engineering and Computing, CEE Graduate Research Day on February 21, 2014.
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19. Tansel, B., Xin, J., Shams, K., "Integrated analysis of transportation network with pipeline system vulnerabilities," 2014 University Transportation Center (UTC) Conference for the Southeastern Region, Atlanta, Georgia, March 24-25, 2014.
20. Washburn, L., Tansel, B., "K-12 Transportation Workforce Development: A Collaborative Effort," 2014 University Transportation Center (UTC) Conference for the Southeastern Region, Atlanta, Georgia, March 24-25, 2014.
21. Arreaza, A., Boglianko, D., Tansel, B., "Surface tension of crude oil contaminated saltwater in the presence and absence of Corexit dispersants: Effect of hydrostatic pressure," 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, Alabama, January 26-29, 2014.
22. Boglaienko, D., Tansel, B., Lee, M., "Efficiency and effectiveness of Corexit dispersants for removing Louisiana crude oil from contaminated natural surfaces in salt water environment," 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, Alabama, January 26-29, 2014.
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27. Tansel, B., Hadi, M., Chen, X., "K-12 Workforce Development and Outreach in Transportation Engineering at FIU," Regional Conference for University Transportation Centers (UTCs) in the Southeastern Region, April 4-5, 2013, Orlando, Florida.

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29. Inanloo, B., Shams, K., Tansel, B., Jin, X., Bernardo-Bricker, A., "GIS Based Air Dispersion Visualization of Spill Incidents from Hazardous Cargo," Regional Conference for University Transportation Centers (UTCs) in the Southeastern Region, April 4-5, 2013, Orlando, Florida.
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32. Surita, S., Tansel, B., "Persistence and Partitioning Characteristics of Siloxanes (D4, D5) in the Environment," FIU Civil and Environmental Engineering Graduate Student Research Day, Miami, Florida, February 22, 2013.
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50. George, G.**, Reed, S., Tansel, B., Dunn, C., Gordon, G. "Comparative Evaluation of Methods for Monitoring Leaf Growth: Plan View Photography and Direct Scanning," 4th Annual Agroecology Symposium, Miami, Florida, February 24, 2009.
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- Conference and Exposition*, October 9-13, 1999, New Orleans, Louisiana.
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 55. Rodriguez, R.*, Tansel, B., "Effect of Polyelectrolytes on Emulsion Characteristics of Motor Oil for Treatment of Oil Contaminated Waters," *DoD Seventh Annual HBCU/MI Conference*, Miami, Florida, March 16-18, 1999.
 56. Laha, S., Tansel, B., "Wastewater Reuse Alternatives: A Case Study," Presented at the *the First International Specialized Conference on Water Quality and Its Management*, February 25-March 1, 1998, New Delhi, India.
 57. Laha, S., Tansel, B. "Reuse of Treated Wastewater: A Case Study," To be presented at *the 1997 International Conference of the Society of Ecological Restoration*, November 12-15, 1997, Ft. Lauderdale, Florida.
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 61. Armesto-Perez, I.*, B. Tansel, "Effect of Temperature and Salt Concentration on Behavior of Oil-Water Emulsions," Presented at *the 49th Annual Purdue University Industrial Waste Conference*, May 9-11, 1994.
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 63. Whelan, M.** , B. Tansel, "A Component Analysis of Solid Waste Generated from Hurricane Andrew," Presented at *the 49th Annual Purdue University Industrial Waste Conference*, May 9-11, 1994.
 64. Pascual, B.** , R. Shalewitz, B. Tansel, R. Jayadev**, "Correlation of Physical Properties of Petroleum Based Fuel Oils with Performance of Dissolved Air Flotation," *Proceedings of the 48th Annual Purdue University Industrial Waste Conference*, May 10-12, 1993.
 65. Vilar, F.** , J. Altuve*, B. Tansel, R. Shalewitz, R. Jayadev,** "Effectiveness of PHC Removal by Centrifugation Following Coagulation," *Proceedings of the 48th Annual Purdue University Industrial Waste Conference*, May 10-12, 1993.
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 67. Sevilla, B.** , B. Tansel, "In-Situ Remediation of Soil with Vapor Extraction," Presented at *the Second Annual Symposium on In Situ and On Site Bioreclamation Conference* in San Diego, April 5-8, 1993.

Refereed Undergraduate Student Research Conference Proceedings (as Faculty Sponsor - Presentations made by Undergraduate Students):

1. Eifert, J.*, (Berrin Tansel: Faculty Sponsor), "Sorption versus Coagulation in the Treatment of Hydrocarbon Contaminated Waters," *Proceedings of the 9th National Conference on Undergraduate Research*, Vol. 3, pp. 1110-1114, Schenectady, New York, April 20-22, 1995.
2. Foster, R.*, (Berrin Tansel: Faculty Sponsor), "The Ethics of Environmental Discrimination," *Proceedings of the 9th National Conference on Undergraduate Research*, Vol. 1, pp. 115-119, Schenectady, New York, April 20-22, 1995.
3. Vereas, A.*, (Berrin Tansel: Faculty Sponsor), "Effectiveness of Coagulation Technology to Remove Petroleum Hydrocarbons," *Proceedings of the 8th National Conference on Undergraduate Research*, Vol. 2, pp. 516-519, Kalamazoo, Michigan, April 14-16, 1994.
4. Altuve, J.*, (Berrin Tansel: Faculty Sponsor), "Removal of Petroleum Hydrocarbons with Media Filtration," *Proceedings of the 8th National Conference on Undergraduate Research*, Vol. 2, pp. 520-523, Kalamazoo, Michigan, April 14-16, 1994.
5. Eifert, J.*, (Berrin Tansel: Faculty Sponsor), "Flocculation: Molecular Structure Analysis of Hydrocarbons and Mixed Fuel Derivatives in the Treatment of Water," *Proceedings of the 8th National Conference on Undergraduate Research*, Vol. 3, pp. 1117-1120, Kalamazoo, Michigan, April 14-16, 1994.
6. Boza, V.*, (Berrin Tansel: Faculty Sponsor), "Weathering as Pretreatment Process to Ultrafiltration for Treatment of Fuel Oil Contaminated Waters," *Proceedings of the 8th National Conference on Undergraduate Research*, Vol. 2, pp. 524-527, Kalamazoo, Michigan, April 14-16, 1994.
7. Krouskroup, K.*, (Berrin Tansel: Faculty Sponsor), "Evaluation of Reusability of Ultra and Nano Filtration Membranes," *Proceedings of the 8th National Conference on Undergraduate Research*, Vol. 2, pp. 506-509, Kalamazoo, Michigan, April 14-16, 1994.
8. Vilar, F.*, J. Regula** (Berrin Tansel: Faculty Sponsor), "Effectiveness of Coagulation and Centrifugation in Removing Petroleum Contamination," *Proceedings of the 7th National Conference on Undergraduate Research*, Vol. 2, pp. 641-645, Salt Lake City, Utah, March 25-27, 1993.
9. Perez-Armesto, I.*, C. Jordahl**, (Berrin Tansel: Faculty Sponsor), "Mapping of Contaminant Profiles by Neural Networks," *Proceedings of the 7th National Conference on Undergraduate Research*, Vol. 3, pp. 1415-1419, Salt Lake City, Utah, March 25-27, 1993.
10. Diaz, M.*, I. Perez-Armesto*, (Berrin Tansel: Faculty Sponsor), "The Effect of Water Characteristics on Formation of Oil Emulsions," *Proceedings of the 7th National Conference on Undergraduate Research*, Vol. 2, pp. 646-650, Salt Lake City, Utah, March 25-27, 1993.
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12. Avello, M*, B. Pascual**, (Berrin Tansel: Faculty Sponsor), "Analysis of Fouling Characteristics of Ultrafiltration Membranes," *Proceedings of the 7th National Conference on Undergraduate Research*, Vol. 2, pp. 616-620, Salt Lake City, Utah, March 25-27, 1993.

13. Estevez, E.*, (Berrin Tansel: Faculty Sponsor), "Analysis of Solid Waste Disposal After Hurricane Andrew," *Presented at the 7th National Conference on Undergraduate Research*, Salt Lake City, Utah, March 25-27, 1993.
14. Parker, G.*, M. Whelan*, (Berrin Tansel: Faculty Sponsor) "Synergistic and Antagonistic Toxicity Effects during Wastewater Treatment". *Proceedings of the Sixth National Conference on Undergraduate Research*, Vol. 3, pp. 1866-1870, Minneapolis, Minnesota, March 26-28, 1992.
15. Whelan, M.*, G. Parker*, (Berrin Tansel: Faculty Sponsor) "The Effectiveness of Toxicity Reduction During Wastewater Treatment," *Proceedings of the 6th National Conference on Undergraduate Research*, Vol. 2, pp. 721-725, Minneapolis, Minnesota, March 26-28, 1992.
16. Gomez, N.*, (Berrin Tansel: Faculty Sponsor) "The Port of Miami and the Biscayne Bay Estuary," *Proceedings of the 6th National Conference on Undergraduate Research*, Vol. 2, pp. 726-731, Minneapolis, Minnesota, March 26-28, 1992.
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18. Camuso, J*, (Berrin Tansel: Faculty Sponsor) "Oil Spill Spreading and Trajectory Analysis," *Proceedings of the 6th National Conference on Undergraduate Research*, Vol. 2, pp. 691-696, Minneapolis, Minnesota, March 26-28, 1992.

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1. Gilmer, P. J., Tansel, B., Hughes, M. (Eds.) "*Alliances for Advancing Academic Women: Guidelines for Collaborating in STEM Fields*," Sense Publishers, 2014.
2. Keyes, C., Fahy, M., Tansel, B. (Eds.) "*Concentrate Management in Desalination: Case Studies*," American Society of Civil Engineers, Environment and Water Resources Institute (ASCE/EWRI), Editor, 2012.
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2. Tansel, B., Londono, V., Kumar, P., Sizirici, B., 2008, "Closed Landfills as Power Parks: Technical and Economic Feasibility of Solar Energy Harvesting at Florida's Closed Landfills," Report No. 08-XXX, <http://www.hinkleycenter.com/publications/bypub.htm>, Hinkley Center for Solid and Hazardous Waste Management, Gainesville, FL.
3. Tansel, B., Reinhart, D., Sizirici, B., 2008, "Performance Based Decision System for Determining Post Closure Care (PCC) Period in Florida Landfills," Report No. 08-063201, <http://www.hinkleycenter.com/publications/bypub.htm>, Hinkley Center for Solid and Hazardous Waste Management, Gainesville, FL.
4. Tansel, B., 2005, "Integrated Evaluation of Membrane Bioreactor Technology," NASA, Biological Sciences Office Spaceport Engineering and Technology Directorate, John F. Kennedy Space Center, Florida Space Grant Consortium.
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6. Tansel, B., 1998, "Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems, Vol. I: Ultrafiltration," prepared for U.S. Army Troop Support Command (TROSCOM), Belvoir Research, Development and Engineering Center, Fort Belvoir, Virginia.
7. Tansel, B., 1998, "Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems, Vol. II: Dissolved Air Flotation," prepared for U.S. Army Troop Support Command (TROSCOM), Belvoir Research, Development and Engineering Center, Fort Belvoir, Virginia.
8. Tansel, B., 1998, "Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems, Vol. III: Media Filtration," prepared for U.S. Army Troop Support Command (TROSCOM), Belvoir Research, Development and Engineering Center, Fort Belvoir, Virginia.
9. Tansel, B., 1998, "Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems, Vol. IV: Centrifugation," prepared for U.S. Army Troop Support Command (TROSCOM), Belvoir Research, Development and Engineering Center, Fort Belvoir, Virginia.
10. Ahmad, I., Tansel, B., Mitrani, J.D., 1994, Effectiveness of HVAC Sanitation Processes in Improving Indoor Air Quality - Phase II. Prepared for the Building Construction Advisory Committee of South Florida Department of Education, North American Insulation Manufacturers Association and The Florida Air Conditioning Contractors Association, Technical Report Publication 119.
11. Ahmad, I., Tansel, B., Mitrani, J.D., 1994, Effectiveness of HVAC Sanitation Processes in Improving Indoor Air Quality. Prepared for the Building Construction Advisory Committee of South Florida Department of Education, North American Insulation Manufacturers Association and The Florida Air Conditioning Contractors Association, Technical Report Publication 113.

12. Tansel, B., 1992, Technical Literature Review and Technologies Evaluation for Assessment of Oil Pretreatment Technologies to Improve Performance of Reverse Osmosis Systems, prepared for U.S. Army Troop Support Command (TROSCOM), Belvoir Research, Development and Engineering Center, Fort Belvoir, Virginia, June 1992.
13. Report to Congress: Volume Reduction of Municipal Solid Waste Before Placement in Landfills. Mandated by Section 702 HSWA-1984. Medford, Massachusetts, Center for Environmental Management for the U.S. Environmental Protection Agency. January 1987.
14. Report to Congress: More Efficient Systems for Depositing Waste in Landfills. Mandated by Section 702 HSWA-1984. Medford, Massachusetts, Center for Environmental Management for the U.S. Environmental Protection Agency. January 1987.
15. Report to Congress: Accelerating Landfill Stabilization. Mandated by Section 702 HSWA-1984. Medford, Massachusetts, Center for Environmental Management for the U.S. Environmental Protection Agency. January 1987.
16. Report to Congress: Utilizing Municipal Sewage Sludge to Reclaim and Extend Useful Life of Sanitary Landfills. Mandated by Section 702 HSWA-1984. Medford, Massachusetts, Center for Environmental Management for the U.S. Environmental Protection Agency. January 1987.
17. Report to Congress: Innovative Uses for Closed Sanitary Landfill Sites. Mandated by Section 702 HSWA-1984. Medford, Massachusetts, Center for Environmental Management for the U.S. Environmental Protection Agency. January 1987.

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Effluent Treatment Plant Study, Prepared for the City of Pompano Beach, Pompano Beach, Florida, March 1991.

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1. Waste: A Handbook for Management, 2nd edition, Eds. T.M. Letcher, D.A. Vallero, 2015.
2. Waste Management Practices: Municipal, Hazardous, and Industrial, Second Edition, John Pichtel (2014).
3. Wastewater Treatment, by Bruce Berdanier, College Publishing, Glen Allen, Virginia (2008).
4. Environmental Soil and Water Chemistry 2nd Edition, 2004, by P. Ming Huang, (First Edition by V.P. Evangelou).
5. Principles and Practices of Waste Management: Municipal, Industrial, Hazardous, by John Pichtel, Brooks/Cole Thompson Learning Inc. (2003).
6. Solid Waste Engineering, by P. A. Vesilind, W. Worrel and D. Reinhart (2002), Brooks/Cole Thompson Learning Inc.
7. 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. "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/>
2. "Magic Sand" Cleans up floating oil," <http://oceanbites.org/magic-sand-cleans-up-floating-oil/>, Oceanbites, written by Caoxin Sun, March 2015.
3. "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.
4. "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.

5. "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.
6. "Seven challenges for post closure landfills," http://www.ben-global.com/Waste/News/Seven_challenges_for_post_closure_landfills_9726.aspx, Jan 3, 2012.
7. "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.
8. "Emulsion Behavior and Oil Spill Clean Up Efforts in the Gulf," Chronicle of Higher Education, July 13, 2010.
9. "Hot Jobs: Environmental Engineering," interview by Miami Heard, November 16, 2009.
10. "FIU-US Army Corps Collaboration" videotaped interview, August 25, 2008.
11. "Middle school students team up with ExxonMobil engineers in science camp at FIU," News Release by Florida International University, July 8, 2008.
12. 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.
13. "Green Backed Business," press release on "Go Green with FIU," April 1, 2008, <http://wordpress.fiu.edu/gogreen/2008/04/01/article3/>
14. "Accomplished Professor Inspires Current, Future Engineering Students," The Beacon, Student Newspaper of Florida International University, March 13, 2008.
15. "FIU Tree Planting Ceremony to Commemorate the First Bachelor Degree Graduates of Bachelorate Degree in Environmental Engineering" November 30, 2007.
16. 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
17. 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
18. Proclamation of Environmental Engineering Day in Miami-Dade County, Press Release on February 21, 2006.
19. "Debris from Hurricane Holds Lessons," Gainesville Sun, October 3, 1993.
20. Featured in Sarasota-Herald Tribune (October 4, 1993) "Professor Contemplates the Fate of Hurricane Debris," about research on structural waste management after hurricane Andrew.
21. Featured in Miami Herald (October 2, 1993) about research on structural waste management after hurricane Andrew.
22. Featured in Natural Hazards Observer, Volume 17, No. 3, January 1993.

FUNDED RESEARCH

As Project Director and Principal Investigator:

1. NASA, Kennedy Space Center, "Ammonia Capture and Recovery System and Method for Removing Ammonia from a Wastewater Stream," \$25,000. 2016-2017.
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. Miami Dade Water and Sewer Department, "Water Use Efficiency and Water Consumption Data Analysis," \$77,343.00, PI: B. Tansel. 2015-2016.
4. Miami Dade Water and Sewer Department, "Central District Wastewater Treatment Dewatering Project," \$50,750, PI: B. Tansel. 2015-2016.
5. Miami Dade Water and Sewer Department, "South District Wastewater Treatment Dewatering Project," \$50,750, PI: B. Tansel. 2015-2016.
6. 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.
7. Miami Dade Water and Sewer Department, "MDWASD Water Conservation Project" \$104,417, PI: B. Tansel. 2012-2014.
8. National Academy of Sciences, \$4,000. Eisenhower Fellowship.
9. 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.
10. STRIDE University Transportation Center, "K-12 Workforce Development in Transportation Engineering at FIU," \$10,000, 2012-2014, PI: B. Tansel.
11. 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.
12. 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.
13. 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.
14. Miami Dade Water and Sewer Department, "MDWASD Water Conservation Project" \$53,995, PI: B. Tansel. 2011-2012.
15. National Science Foundation, "RAPID: Formation, Persistence and Mobility of Oil Emulsions after Major Spills at Sea," \$35,000, 2010-2011, PI: B. Tansel.
16. 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.
17. University of Florida, "The South East Alliance for Graduate Education and the Professoriate (SEAGEP) University of Florida," \$47,905, 2010-2011.

18. Research Triangle Institute International, "GEAR UP Planning Grant," \$24,000, 2010-2011.
19. 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.
20. Florida Space Research Consortium, "Design Project Support," \$2,000, PI: B. Tansel, 2009-2010.
21. 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.
22. National Science Foundation, "Advance Paid," \$56,643. PI: B. Tansel, Co-PIs: G. Roig, J. Miksovska, 2009-2012.
23. Dade County Public Schools, "Florida Action for Minorities in Engineering (FLAME)," \$67,500. PI: B. Tansel. 2009-2010. PI: B. Tansel.
24. Children's Trust, "ENLACE Miami," \$587,225. 2009-2010. PI: B. Tansel.
25. 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.
26. Miami Dade Water and Sewer Department, "Pump Station Data Processing and Analysis" \$5,625. PI: B. Tansel. 2009-2010.
27. 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.
28. 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
29. Miami Dade Water and Sewer Department, "Gravity System Modeling-Invert Elevation Analysis" \$15,205. PI: B. Tansel, Co-PIs: L. Prieto. 2008-2009.
30. 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.
31. NSF/FAMU, "Florida Georgia Louis Stokes for Minority Participation (FGLSAMP)," \$38,406. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
32. Department of Education, "GEAR UP South Dade Empowerment Zone," \$6,557,778. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
33. Junior Engineering Technical Society, "JETS/Unite," \$27,778. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
34. The Children's Trust, "Enlace Miami," \$1,047,050. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
35. Miami Coral Park Senior High, "Florida Action for Minorities," \$61,191. PI: B. Tansel (PI transfer from G. Roig), 2008-2009.
36. Flagler Development Group, Inc., "Everglades Research Experience II," \$7,500, PI: B. Tansel, 2008-2009.
37. Codina Group, "Everglades Research Experience III," \$3,500, PI: B. Tansel, 2008-2009.
38. NACME, "NACME Block Grant," \$300,000, PI: B. Tansel, Co-PI: G. Roig. 2008-2009.

39. 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
40. ExxonMobil and The Harris Foundation, "Bernard Harris Summer Science Enrichment Program," \$80,000, PI: B. Tansel, Co-PI: G. Roig, 2008-2009.
41. 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.
42. Miami-Dade County Public Schools, "Math Matters Every Day (M2ED)," \$175,000, PI: B. Tansel, Co-PI: G. Roig, 2007-2008.
43. ExxonMobil and The Harris Foundation, "Bernard Harris Summer Science Enrichment Program," \$77,874, PI: B. Tansel, Co-PI: G. Roig, 2007-2008.
44. Kauffman Foundation/Pino Center, "Environmental Entrepreneurship Integration (E2I)," \$15,000. 2006-2008.
45. "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.
46. FEC Inc., "Everglades Research Experience," \$15,000, PI: B. Tansel, Co-PI: A. Weberman, 2006-2012.
47. "Environmental Engineering Scholarships," Metcalf and Eddy, Inc., (\$1,000/year for 5 years) (Scholarship), 2006-2011.
48. "Summer Faculty Research Fellowship at NASA-KSC," American Society of Engineering Education (ASEE), \$14,000. 2005.
49. "Summer Faculty Research Fellowship at NASA-KSC," American Society of Engineering Education (ASEE), \$14,000. 2004.
50. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$150,000. 1996-2001.
51. 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.
52. Department of Defense, Environmental Education and Training Consortium, Demonstration Grant, \$4,000. 1997-1998.
53. 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.
54. 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.
55. Department of Defense, Environmental Education and Training Consortium; Scholarship/Fellowship Program, PI: B. Tansel, \$66,240. 1995-1999.
56. Department of Defense, Environmental Education and Training Consortium, Demonstration Grant, PI: B. Tansel, \$15,000. 1995-1998.

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, \$58,500, 1995-1997.
58. 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.
59. Miscellaneous Companies, "Waste Management Education and Research Consortium Competition," PI: B. Tansel, \$3,853. 1994-1997.
60. U.S. Army Research Office "Analysis of Pretreatment Technologies for Petroleum Hydrocarbons," PI: B. Tansel, \$125,000. 1993-1996.
61. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$100,000. 1993-1995.
62. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering on Hurricane Studies," Supplement, PI: B. Tansel, \$10,000. 1993-1994.
63. 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.
64. 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.
65. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," PI: B. Tansel, \$55,000. 1992.
66. Ford Foundation, Travel Grant. \$800. 1992.
67. National Science Foundation, "Research Experiences for Undergraduates in Environmental Science and Engineering," Principal Investigator, \$55,000. 1991.
68. National Science Foundation, Travel Grant for the Sixth National Conference on Undergraduate Research. Minneapolis, Minnesota. March 26-28. \$570. 1992.
69. Department of Energy: Energy Related Equipment Grant, \$8,716., 1991.
70. Waste Management and Research Consortium Grant, \$250. 1991.

As Co-Principal Investigator:

1. Eisenhower Fellowships, U.S. Department of Transportation. 2012-2014, \$80,000. Co-PIs: Tansel, B., Jolibois, S., Laha, S., Ali, H.
2. 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.)

3. 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.
4. The Children's Trust, "ENLACE: Engaging Latino Communities for Education," \$704,953. PI: G. Roig, Co-PI: B.Tansel, 2008-2009.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. JETS UNITE, Junior Engineering Technical Society (JETS), Inc., \$15,000. 1994.
12. JETS UNITE, Junior Engineering Technical Society (JETS), Inc., \$15,000. 1994.
13. U.S. EPA Graduate Education of Environmental Engineers and Scientists at FIU, \$100,000. 1993-1996.
14. 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.
15. 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.
16. Florida Air Conditioning Contractors Association, "Effectiveness of HVAC Sanitation Processes in Improving Indoor Air Quality," \$350. 1992. PIs: I. Ahmad, J. Mitrani, B. Tansel.

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

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, Water Research
7. Referee, Biofouling
8. Referee, Biochemical Engineering Journal
9. Referee, Bioresource Technology
10. Referee, Colloids and Surfaces
11. Referee, Chemosphere
12. Referee, Chemical Papers
13. Referee, Desalination
14. Referee, Geoderma
15. Referee, Energy & Fuels
16. Referee, Water
17. Referee, Journal of Membrane Science (JMS)
18. Referee, Chemical Industry & Chemical Engineering Quarterly
19. Referee, Desalination and Water Treatment (DWT)
20. Referee, Separation and Purification Technology

21. Referee, Fresenius Environmental Bulletin
22. Referee, Journal of Water, Air and Soil Pollution
23. Referee, ASCE, Journal of Environmental Engineering
24. Referee, ASCE, Journal of Urban Planning and Development
25. Referee, ASCE, Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management
26. Referee, ASCE, Journal of Computing in Civil Engineering
27. Referee, ASCE, Journal of Energy Engineering
28. Referee, ASCE, Journal of Natural Hazard Review
29. Referee, IEEE Transactions of Engineering Management
30. Referee, IEEE Transactions on Systems, Man, and Cybernetics
31. Referee, Recent Patents on Chemical Engineering
32. Referee, Journal of the American Water Resources Association (JAWRA)
33. Referee, Journal of the Air and Waste Management Association (JAWMA)
34. Referee, Journal of American Water Works Association (JAWWA)
35. Refree, Journal of Cleaner Production
36. Referee, Journal of Environment and Development
37. Referee, Journal of Environmental Management
38. Referee, Journal of Environmental Research and Public Health
39. Referee, Journal of Civil Engineering and Environmental Systems
40. Referee, Journal of Science of the Total Environment
41. Referee, Journal of Hazardous Materials
42. Referee, Industrial and Engineering Chemistry Research
43. Referee, International Journal of Environmental Analytical Chemistry
44. Referee International Journal of Environmental Science and Technology
45. Referee, International Journal of Computers & Mathematics with Applications
46. Referee, Brazilian Journal of Chemical Engineering
47. 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. Department of Agriculture, SBIR (Small Business Innovation Research; Air, water, soil panel) (2013)
2. National Science Foundation, Collaborative Research (2011)
3. U.S. Environmental Protection Agency, P3 Program, Built Environment & Materials and Chemicals (2011, 2012, 2014)
4. U.S. Environmental Protection Agency, P3 Program, Water & Agriculture (2011)
5. U.S. Environmental Protection Agency, EPA Science to Achieve Results (STAR) Fellowships Program (2009, 2010, 2012, 2013)
6. U.S. Environmental Protection Agency, STAR and GRO Program (2008)
7. National Science Foundation, 2007 NSF Graduate Research Fellowship Program
8. Institute for Public Health & Water Research (IPWR) (2005-2006)
9. National Science Foundation, 2003 NSF Graduate Research Fellowship Program
10. National Science Foundation, 2002 NSF Graduate Research Fellowship Program
11. U.S. Civilian Research Development Foundation (CRDF), 2002
12. National Science Foundation, 2000 NSF Graduate Research Fellowship Program
13. National Science Foundation, CAREER program (2000)
14. National Science Foundation, REU Program (various years 1996-2000)
15. U.S. Department of Agriculture, SBIR (Small Business Innovation Research) Program (1996)
16. U.S. Environmental Protection Agency, SBIR (Small Business Innovation Research) Program (1996-present, various years)
17. U.S. Environmental Protection Agency, EPSCoR Program (Experimental Program to Stimulate Competitive Research) (1996-present, various years)
18. USDA National Needs Fellowships Program Panel (2012)
19. 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 Eng. (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 (1995-1997)
49. Member, University Judicial Committee (1996-2015)
50. Member, Honorary Degree and Awards Committee (1995-1996)
51. Ambassador, Civil and Environmental Engineering Department, United Way 1996
52. Member, Affirmative Action Committee (1993-1997)
53. Member, Academic Conduct Committee (1994-present)
54. Member, Environmental Council (1992-2000)
55. Member, University Research Committee (1994-1996)
56. Faculty Advisor, FIU Environmental Engineering Club (1991-1994)
57. Member, Solid Waste Steering Committee (1991-1995)
58. Member, Fulbright Advisory Committee (1994-1999)