

Curriculum Vitae

KRISTINA D. (CRABTREE) MENA

Associate Professor
Epidemiology, Human Genetics, and Environmental Sciences
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EDUCATION

- Postdoctoral Fellow, Food Animal Health and Management Center, Kansas State University, Manhattan, KS, 1997-1998
- Ph.D., Department of Soil, Water and Environmental Science, The University of Arizona, Tucson, AZ, 1993-1996
- M.S.P.H., Department of Environmental and Occupational Health, University of South Florida, Tampa, FL, 1991-1993
- B.A., Department of Biology, Franklin College of Indiana, Franklin, IN, 1987-1991

APPOINTMENTS

- Interim Regional Dean, El Paso Campus, School of Public Health, The University of Texas Health Science Center at Houston, 2016-present
- Acting Dean, El Paso Campus, School of Public Health, The University of Texas Health Science Center at Houston, 2014
- Program Head, Environmental and Occupational Health Sciences, Division of Epidemiology, Human Genetics and Environmental Sciences, School of Public Health, The University of Texas Health Science Center at Houston, 2010-present
- Associate Professor of Environmental Sciences with tenure, School of Public Health, The University of Texas Health Science Center at Houston, 2009-present
- Assistant Professor of Environmental Sciences, School of Public Health, The University of Texas Health Science Center at Houston, 2001-2008
- Adjunct Faculty in Biology, The University of Texas at El Paso, El Paso, TX, 2004-present
- Adjunct Faculty in Chemistry and Environmental Science & Engineering, The University of Texas at El Paso, El Paso, TX, 2001-present
- Full-time Faculty, Division of Business and Science, Eastern New Mexico University-Roswell, Roswell, NM, 2000-2001
- Postdoctoral Fellow, Kansas State University, Food Animal Health and Management Center, Manhattan, KS, 1997-1998
- Adjunct Faculty, Arizona Department of Corrections & Department of Environmental Science and Emergency Services, Pima Community College, Tucson, AZ, 1996-1997
- Research Assistant, The University of Arizona, Department of Soil, Water and Environmental Science, Tucson, AZ, 1994-1996
- Research Technician, Polar Equipment, Inc., Santa Clara, CA, 1995
- Research Technician, American Water Works Service Company, Inc., St. Louis, MO, 1995

- Research Assistant, The University of Arizona, Department of Soil, Water and Environmental Science, Tucson, AZ, 1993-1994
- Research Assistant, University of South Florida, Department of Environmental and Occupational Health, Tampa, FL, 1992-1993
- Research Assistant, University of South Florida, Department of Community and Family Health, Tampa, FL, 1991-1992
- Winter Intern, Eli Lilly & Company, Department of Infectious Disease Research, Indianapolis, IN, 1990 and 1991

FELLOWSHIPS

- Post-Doctoral Fellowship, Kansas State University, 1997-1998
- American Association for the Advancement of Science, Science and Engineering Fellowship, 1996

HONORS AND AWARDS

- *Cutting Edge Award*, Women's Border Business Center, El Paso Hispanic Chamber of Commerce (2017)
- Reappointed to a Second Term to the USEPA Chartered Science Advisory Board (2016-2019)
- Reappointed to a Second Term to the USEPA Science Advisory Board Drinking Water Committee (2016-2019)
- Appointed to the Public Service Board by El Paso Mayor and City Council, El Paso, Texas (2016-2019)
- Featured in Houston Business Journal (2014)
- Featured in Texas Medical Center News (2014)
- Featured in Franklin College of Indiana publication (2014)
- Community Service Award, University of Texas–Houston School of Public Health (2014)
- Selected for USEPA Chartered Science Advisory Board (2013-2016)
- Selected for USEPA Science Advisory Board, Drinking Water Committee (2013-2016)
- Nominated for USEPA Science Advisory Board (2012-2013)
- Nominated for USEPA Science Advisory Board Panel (2011) *Cancelled - Lack of funding*
- Selected for Who's Who Among Executives and Professionals, 2008-2009 Honors Edition
- Selected to create podcast, MicrobeWorld Radio, American Society for Microbiology (2007)
- Keynote Speaker, Annual Symposium, The Groundwater Foundation (2006)
- American Academy of Microbiology Colloquium, American Society for Microbiology (2006)
- Elected Vice Chair, Public Interest Advisory Forum, American Water Works Association (2006)
- National Drinking Water Advisory Council nominee, United States Environmental Protection Agency (2006)
- Recognition at Faculty Honors Convocation, The University of Texas Health Science Center at Houston (2005)
- National Drinking Water Advisory Council nominee, United States Environmental Protection Agency (2005)
- Outstanding Young Investigator, University of Texas Health Science Center at Houston, (2005)

- Best Paper of the Year Award, American Water Works Association, Water Science & Research Division (2005)
- Honors Convocation, The University of Texas Health Science Center at Houston (2005)
- Published International Interview, International Water Association (2005)
- Microbiology Delegation, People to People Ambassador Programs to South Africa (2005)
- Keynote Speaker, The New Mexico Regional Honors Institute (2000)
- Environmental Science & Engineering Fellowship, United States Environmental Protection Agency, American Association for the Advancement of Science (1996)
- Sigma Xi Travel Award (1995)
- The University of Arizona Student Showcase, Second Place (1994)
- Arizona Branch Student Presentation Travel Award, American Society for Microbiology (1994)
- National English Honor Society, Sigma Tau Delta (1991)

RESEARCH - Interests

- Quantitative Risk Assessment
- Water Quality
- Food Safety

RESEARCH – Publications

Peer-Reviewed Journal Articles (*student, **corresponding, ***high impact)

1. Altomare*, T.K. and **K.D. Mena****. 2017. The *Listeria* hysteria: risk assessment methods for foodborne listeriosis. *Agro Food Industry Hi Tech* 28(4):56-59.
2. Shayanfar, S., **K.D. Mena**, and S.D. Pillai. 2016. Quantifying the reduction in potential infection risks from non-O157 Shiga toxin producing *Escherichia coli* in strawberries by low dose electron beam processing. *Food Control* doi:10.1016/j.foodcont.2016.04.057.
3. Black, J.C., J.N. Welday, B. Buckley, A. Ferguson, P.L. Gurian, **K.D. Mena**, I. Yang, E. McCandlish and H.M. Solo-Gabriele. 2016. Risk assessment for children exposed to beach sands impacted by oil spill chemicals. *International Journal of Environmental Research and Public Health* 13:853-870.
4. Perez, V., **K.D. Mena**, H.N. Watson, R.B. Prater and J.I. McIntyre. 2015. Evaluation and quantitative microbial risk assessment of a unique antimicrobial agent for hospital surface treatment. *American Journal of Infection Control* 43:1201-1207.
5. Regnier*, A.L., P.L. Gurian and **K.D. Mena**. 2015. Drinking water intake and source patterns within a U.S.-Mexico border population. *International Journal of Environmental Health Research* 25(1):21-32.
6. Chen, Y.-L., Y.-C. Yen, C.-Y. Yang, M.S. Lee, C.-K. Ho, **K.D. Mena**, P.-Y. Wang and P.-S. Chen. 2014. The concentrations of ambient *Burkholderia pseudomallei* during typhoon season in endemic area of melioidosis in Taiwan. *PLOS Neglected Tropical Diseases* 8(5).
7. Martínez-Bastidas, T., N. Castro-del Campo, **K. Mena**, N. Castro-del Campo, J. León-Félix, C. Gerba and C. Chaidez. 2014. Detection of pathogenic microorganisms on

children's hands and toys during play. *Journal of Applied Microbiology* 116(6):1668-1675.

8. Praveen, C., B. Dancho, D. Kingsley, K. Calci, G. Meade, **K. Mena** and S. Pillai. 2013. Susceptibility of murine norovirus and hepatitis A virus to electron beam irradiation in oysters and quantifying the reduction in potential infection risks. *Applied & Environmental Microbiology* 79(12):3796-3801.
9. Soto-Beltran, M., **K.D. Mena**, C.P. Gerba, P.M. Tarwater, K. Reynolds and C. Chaidez. 2013. Risk assessment of *Listeria monocytogenes* in queso fresco in Culiacan, Mexico. *Journal of Microbiology Research* 3(3):111-116.
10. Betancourt, W.Q. and **K.D. Mena**. 2012. Assessment of waterborne protozoan passage through conventional drinking water treatment process in Venezuela. *Journal of Water and Health* 10.2:324-336.
11. Reynolds, K.A., G.D. Di Giovanni and **K.D. Mena**. 2012. *Cryptosporidium* and *Giardia* zoonoses: minimizing health risks from animal production. *Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 7(8):1-7.
12. Espinosa, A., P. Jesudhasan, R. Arredondo, M. Cepeda, M. Mazari-Hiriart, **K. Mena** and S. Pillai. 2012. Sensitivity of poliovirus type I chat strain and rotavirus SA-11 to e-beam irradiation on iceberg lettuce and spinach: quantifying the reduction in potential health risks. *Applied & Environmental Microbiology* 78(4):988-993.
13. Magana-Ordorica, D., M. Soto-Beltran, **K.D. Mena**, B. Valdez, J. León-Félix and C. Chaidez. 2010. Relationships between the occurrence of *Giardia* and *Cryptosporidium* and physicochemical properties of marine waters off the pacific coast of Mexico. *Journal of Water and Health* 8(4):797-802.
14. Cardenas, V., **K.D. Mena**, M. Ortiz, S. Karri, E. Variyam, C. Barton Behravesh, K.F. Snowden, A. Flisser, J.R. Bristol, L.F. Mayberry, Y.R. Ortega, Y. Fukuda, A. Campos and D.Y. Graham. 2010. Hyperendemic *H. pylori* and tapeworm infections in a US-Mexico border population. *Public Health Reports* May-June 125:441-447.
15. Travis*, P.B., K.J. Goodman, K.M. O'Rourke, F.D. Groves, D. Sinha, J.S. Nicholas, J. VanDerslice, D. Lackland and **K.D. Mena**. 2010. The association of drinking water quality and sewage disposal with *Helicobacter pylori* incidence in infants: the potential role of water-borne transmission. *Journal of Water and Health* 8(1):192-203.
16. Flores*, C., L.C. Mota, C.F. Green, **K.D. Mena**, H.G. Balcazar and S.G. Gibbs. 2009. Evaluation of respiratory symptoms and their possible association with residential indoor bioaerosol concentrations and other environmental influences. *Journal of Environmental Health* 72(4):8-13.
17. Mota*, A., **K.D. Mena**, M. Soto-Beltran, P.M. Tarwater and C. Chaidez. 2009. Risk assessment of *Giardia* and *Cryptosporidium* in water irrigating fresh produce in Mexico. *Journal of Food Protection* 72(10):2184-2188.
18. **Mena, K.D.** and C.P. Gerba. 2009. Risk assessment of *Pseudomonas aeruginosa* in water. *Reviews in Environmental Contamination and Toxicology* 201:71-115.

19. Corella-Barud, V., **K.D. Mena****, S.G. Gibbs, P.L. Gurian and A. Barud. 2009. Evaluation of neighborhood treatment systems for potable water supply. *International Journal of Environmental Health Research* 19(1):49-58.
20. **Mena, K.D.** and C.P. Gerba. 2009. Waterborne adenovirus. *Reviews in Environmental Contamination and Toxicology* 198:133-167.
21. Bristow*, Z., **K.D. Mena**, S.G. Gibbs, P.L. Gurian, Z.M. Mulla and T.L. Byrd. 2008. Risk assessment of heterotrophic plate count (HPC) bacteria in potable water sources. *Texas Public Health Journal* 60(4):9-13.
22. **Mena, K.D.**, L.C. Mota, M.C. Meckes, C.F. Green, W.W. Hurd and S.G. Gibbs. 2008. Quantitative microbial risk assessment of a drinking water-wastewater cross-connection simulation. *Journal of Environmental Engineering & Science* 7:525-530.
23. Carrasco*, L., **K.D. Mena**, L. Mota, M. Ortiz, J.R. Bristol, L. Mayberry, C.E. Barton, S.G. Gibbs and V.M. Cardenas. 2008. Prevalence of potential domestic fecal contamination along the U.S.-Mexico border. *Letters in Applied Microbiology* 46:682-687.
24. Barton*, C.E., L.F. Mayberry, J.R. Bristol, V.M. Cardenas, **K.D. Mena**, J. Martínez-Ocaña, A. Flisser and K.F. Snowden. 2008. Population-based binational survey of taeniasis presents unexpected findings on the U.S. side of the Texas-Mexico border. *Annals of Tropical Medicine and Parasitology* 102(4):325-333.
25. **Mena, K.D.** and S.D. Pillai. 2008. An approach for developing quantitative risk-based microbial standards for fresh produce. *Journal of Water and Health* 6(3):359-364.
26. Reynolds***, K.A., K.D. Mena and C.P. Gerba. 2008. Risk of waterborne illness via drinking water in the United States. *Reviews in Environmental Contamination and Toxicology* 192(4):117-158. (Selected by Institute of Medicine as basis for Global Issues in Water Sanitation and Health Forum on Microbial Threats, 2008)
27. Vela Acosta, M.S., D. Sosa*, M. Sanderson and **K.D. Mena**. 2007. Population growth: adequate predictor of water demand in south Texas? *Texas Public Health Association Journal* 60(1):8-12.
28. Ortega, Y.R., M.P. Torres and **K.D. Mena**. 2007. Prevalence of *Neospora caninum* in three dairy farms in Georgia and two in Texas. *Veterinary Parasitology* 144(3-4):353-355.
29. Ryu, H., A. Alum, **K.D. Mena** and M. Abbaszadegan. 2007. Assessment of the risk of infection by *Cryptosporidium* and *Giardia* in non-potable reclaimed water. *Water Science and Technology* 55(1-2):283-290.
30. Gurian, P.L., G. Camacho, J-Y. Park, S. Cook and **K.D. Mena**. 2006. Evaluating in home water purification methods for communities in Texas on the border with Mexico. *Rev Panam Salud Publica/Pan American Journal of Public Health* 20(6):403-406.
31. Gibbs, S.G., C.F. Green, P.M. Tarwater, L.C. Mota, **K.D. Mena** and P.V. Scarpino. 2006. Isolation of antibiotic-resistant bacteria from the air plume downwind of a swine confined

or concentrated animal feeding operation. *Environmental Health Perspectives* 114(7):1-6.

32. O'Rourke, K.M., M.E. Roddy, D. Williams and **K. Mena**. 2005. Predictors of early postpartum vitamin use among women of Mexican origin: implications for healthcare provider recommendations. *Ethnicity & Disease* 16(1):194-200.
33. Roddy, M.E., K.M. O'Rourke and **K. Mena**. 2005. Factors associated with increased risk for acute unintentional childhood poisoning among children living on the U.S.-Mexico border. *International Quarterly of Community Health Education* 23(4):295-309.
34. Chaidez, C., M. Soto, P. Gortares and **K. Mena**. 2005. Occurrence of *Cryptosporidium* and *Giardia* in irrigation water and its impact on the fresh produce industry. *International Journal of Environmental Health Research* 15(5):339-345.
35. **Mena***, K.D.**, C.P. Gerba, C.N. Haas and J.B. Rose. 2003. Risk assessment of waterborne coxsackievirus. *Journal of the American Water Works Association* 95(7):122-131. (Earned Best Paper Award JAWWA 2005)
36. **Mena, K.D.** Microbial waterborne disease: are we at risk? 2002. *Water Conditioning & Purification* 44(4):38-41.
37. **Crabtree, K.D.**, C.P. Gerba, J.B. Rose and C.N. Haas. 1997. Waterborne adenovirus: a risk assessment. *Water Science and Technology* 35:1-6.
38. Gerba, C.P., J.B. Rose, C.N. Haas and **K.D. Crabtree**. 1996. Waterborne rotavirus: a risk assessment. *Water Research* 30:2929-2940.
39. **Crabtree, K.D.**, R.H. Ruskin, S.B. Shaw and J.B. Rose. 1996. The detection of *Cryptosporidium* oocysts and *Giardia* cysts in cistern water in the U.S. Virgin Islands. *Water Research* 30:208-216.

Peer-Reviewed Reports

1. Reynolds, K.A. and **K.D. Mena**. 2009. Quantitative Microbial Risk Assessment of Waterborne Disease. In: Global Issues in Water, Sanitation, and Health: Workshop Summary. E.R. Choffnes and A. Mack, Rapporteurs. Forum on Microbial Threats, Board on Global Health, Institute of Medicine, ISBN: 0-309-13873-6. National Academies Press, Washington, DC, pp. 201-222.
2. American Academy of Microbiology. 2007. Clean Water, What is Acceptable Microbial Risk? Clean Water Colloquium Report, Washington, DC.
3. Di Giovanni, G. and **K.D. Mena**. 2007. Optimization of Host Cell Capture and Quantitative Polymerase Chain Reaction (HCC-qPCR) for the Rapid Detection of Potentially Infectious Viruses in Water, American Water Works Association Research Foundation (AwwaRF), Project Report No. 2992, Denver, CO.

Peer-Reviewed Book Chapters and Conference Proceedings

1. **Mena, K.D.** 2017. Measuring and minimizing health impacts of foodborne viruses: a targeting tool for risk reduction. In: Foodborne Viral Pathogens. P. White and G. Hansman, Eds. CRC Press, Boca Raton, Florida.

2. Gerba, C.P. and **K.D. Mena**. 2007. Risk assessment of waterborne adenoviruses. In: Proceedings of the 2007 World Congress on Ozone and Ultraviolet Technologies. International Ultraviolet Association, Los Angeles, California.
3. **Mena, K.D.** Waterborne viruses: assessing the risks. 2007. In: Human Viruses in Water, A. Bosch, Ed. Elsevier LTD, London.
4. **Mena, K.D.** 2006. Produce quality and foodborne disease: assessing water's role. In: Microbial Hazard Identification in Fresh Fruits and Vegetables. J.A. James, Ed. John Wiley & Sons, Inc., Hoboken, NJ.
5. **Mena, K.D.** 2006. Risk assessment of parasites in food. In: Foodborne Parasites. Y. Ortega, Ed. Kluwer Academic/Plenum Publishers, New York, NY.
6. **Mena, K.D.**, J.B. Rose and C.P. Gerba. 2004. Addressing food safety issues quantitatively: a risk assessment approach. In: Pre-Harvest and Post-Harvest Food Safety: Contemporary Issues and Future Directions. R.C. Beier, S.D. Pillai, T.D. Phillips and R.L. Ziprin, Eds. Blackwell Publishing, Ames, IA.
7. **Mena, K.D.** 2002. Environmental exposure to viruses: a human health risk assessment methodology. In: The Encyclopedia of Environmental Microbiology. John Wiley & Sons, Inc., New York, NY.
8. **Crabtree, K.D.**, C.P. Gerba, J.B. Rose and C.N. Haas. 1995. Risk assessment of waterborne rotavirus and coxsackievirus. In: Proceedings of the 1995 Water Quality and Technology Conference. American Water Works Association, New Orleans, LA, pp. 789-807.

Other Conference Proceedings & Published Abstracts

1. Roman, M.C. and **K.D. Mena**. 2011. Monitoring of microbial loads during long duration missions as a risk reduction tool. Paper for the 5th International Association for the Advancement of Space Safety (IAASS) Conference, Versailles-Paris, France. October 17-19, 2011.
2. Di Giovanni, G.D., L.Y. Sifuentes and **K.D. Mena**. 2007. Host cell capture quantitative PCR detection of viruses. Proceedings of the American Water Works Association Water Quality Technology Conference, [on CD-ROM]. American Water Works Association, Denver, Colorado.
3. Gurian, P., V. Martinez, **K. Mena**, S. Cook, V. Corella-Barud, A. Barud and J. Graham. 2006. Water supply solutions for peri-urban areas: El Paso-Ciudad Juarez as a laboratory. Abstract to the American Water Works Association Annual Conference and Exposition.
4. Roddy, M., K. O'Rourke and **K. Mena**. 2004. Risk factors associated with increased risk for unintentional childhood poisoning among children living on the U.S./Mexico border. Abstracts of the 37th Annual Meeting of the Society for Epidemiologic Research, Salt Lake City, UT, June 15-18. *American Journal of Epidemiology* 159(11).

5. Roddy, M., K. O'Rourke and **K. Mena**. 2004. Risk factors associated with increased risk for unintentional childhood poisoning among children living on the U.S./Mexico border. Abstracts of the Society for Perinatal and Pediatric Epidemiology. *Journal of the Society for Paediatric and Perinatal Epidemiology*.
6. Goodman, K.J., K. O'Rourke, R.S. Day, C. Wang, **K. Mena**, A. Campos and J.M. de la Rosa. 2003. *Helicobacter pylori* infection rates in the first three years of life: U.S.-Mexico cohort study. *American Journal of Epidemiology* 157(11):S47.
7. **Mena, K.D.**, Editor of Conference Proceedings. 1999. The Road Less Traveled: Understanding & Addressing Groundwater Risks. Proceedings of the 15th Annual Groundwater Foundation Fall Symposium. Atlanta, GA.
8. **Mena, K.D.**, C.P. Gerba, C.N. Haas and J.B. Rose. 1999. Waterborne disease: are we at risk? A risk assessment exercise using waterborne coxsackievirus. In: The Road Less Traveled: Understanding & Addressing Groundwater Risks. Proceedings of the 15th Annual Groundwater Foundation Fall Symposium. Atlanta, GA, pp. 56-64.
9. Sargeant, J.M., J.R. Gillespie, R.D. Oberst, D.J. Hafer and **K.D. Mena**. 1998. Dynamics of *Escherichia coli* O157:H7 infection in range animals. In: Abstracts of the 79th Annual Meeting of the Conference of Research Workers in Animal Diseases. Chicago, IL.
10. Mosier, D.A. and **K.D. Crabtree**. 1998. Infectious waterborne diseases. In: Proceedings of the 60th Annual Conference for Veterinarians. College of Veterinary Medicine, Kansas State University, Manhattan, KS.
11. **Crabtree, K.D.**, R.H. Ruskin, S.B. Shaw and J.B. Rose. 1993. The detection of *Cryptosporidium* oocysts and *Giardia* cysts in cistern water in the U.S. Virgin Islands. In: Abstracts of the 93rd General Meeting of the American Society for Microbiology. American Society for Microbiology, Atlanta, GA.
12. **Crabtree, K.D.**, R.H. Ruskin, S.B. Shaw and J.B. Rose. 1993. The detection of *Cryptosporidium* oocysts and *Giardia* cysts in cistern water in the U.S. Virgin Islands. In: Proceedings of the 1993 Conference on Water Quality in the Western Hemisphere, Abstract No. 23. San Juan, PR.

RESEARCH – Invited Presentations

1. Preventing Waterborne Disease: What's Our Role? (Mena, K.) Leadership Women National Conference. Dallas, Texas. July 27-29, 2017.
2. Children and Waterborne Disease: *What Are the Risks?* (Mena, K.) Children's Environmental Health US/Mexico Border Symposium. Texas Tech Health Sciences Center/USEPA, El Paso, Texas. September 24-25, 2015.
3. Improved Public Health Guidance for Beach Use During and After Oil Spills. (Mena, K., B. Kirkpatrick and H. Solo-Gabriele.) Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, Texas. February 16-19, 2015.
4. Moderator, National Institute on Minority Health & Health Disparities Grantees' Conference. Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity. National Harbor, Maryland. December 1-3, 2014.
5. Paying it Forward: Educating the Next Generation of Public Health Educators Through Community Engagement and Dissemination. (Davis, S., H. Mata, K. Mena and K.

- Hernandez.) Science of Eliminating Health Disparities Summit. National Harbor, Maryland. December 17-19, 2012.
6. Forging New Frontiers on the U.S./Mexico Border Through Community Engagement and Outreach. (Davis, S., H. Mata, K. Mena and K. Hernandez.) 63rd Annual Meeting of the Society for Public Health Education. San Francisco, California. October 25-27, 2012.
 7. Enhancing Health Promotion Through Innovative Mentoring Strategies. (Hernandez, K., S. Ungos, A. Lechuga, H. Mata, S. Davis and K. Mena.) 63rd Annual Meeting of the Society for Public Health Education. San Francisco, California. October 25-27, 2012.
 8. Quantitative Risk Assessment: Promoting Public Health through Membrane Technology. American Membrane Technology Association (AMTA) Technology Transfer Workshop. El Paso, Texas. December 7–9, 2010.
 9. Risk Assessment: Whole System Analysis. Water Quality Technology Conference. Seattle, Washington. November 15-19, 2009. (Unable to Attend)
 10. Risk Assessment Approaches for Food Safety. International Conference on New Horizons in Biotechnology. Trivandrum, India. November 26-29, 2007. (Unable to Attend)
 11. Assessment of Microbial Exposures from Water: Appropriate Strategies for Risk-Based Protection of Public Health. International Society of Exposure Analysis Annual Conference. Durham/Research Triangle Park, NC. October 14-18, 2007.
 12. Waterborne and Foodborne Disease: Are We At Risk? Our Changing World Lecture Series, The University of Texas at El Paso Center for Lifelong Learning. El Paso, TX. April 2007.
 13. Waterborne Pathogens: An Overview of the Threat. The Groundwater Foundation Annual Symposium. **Keynote Speaker**. East Lansing, MI. November 2006.
 14. University of Wisconsin-Madison, School of Medicine and Public Health, Department of Population Health Sciences. Madison, WI. February 2006.
 15. Foodborne and Waterborne Disease: Are We At Risk? Texas Department of State Health Services El Paso, TX. January 2006.
 16. Developing Risk-based Microbial Standards for Irrigation Water. International Society of Exposure Analysis Annual Meeting. Tucson, AZ. October 2005.
 17. Healthy Beaches and Microbes: How Quantitative Microbial Risk Assessment Can Assist in the Closure Decision Process. Clean Beaches Council, 2005 Sustainable Beaches Conference. St. Petersburg, FL. October 2005. (Dr. John Lisle, U.S. Geological Survey, presented on my behalf due to scheduling conflict with above presentation).
 18. Groundwater Vulnerability: A Public Health Perspective. 20th Annual Groundwater Foundation Conference. Washington, D.C. November 2004.
 19. Parasitic Foodborne Disease: Assessing the Risks. University of Georgia, Center for Food Safety Food Safety Workshop: Parasites in Meats and Fresh Produce. Griffin, GA. July 2004.
 20. Panel of Epidemiological Bi-National Studies of Enteric Infectious Disease in the El Paso Norte Region. United States-Mexico Border Health Association, 62nd Annual Meeting. Autonomous University of Ciudad Juarez, Institute of Biomedical Sciences. Ciudad Juarez, Chihuahua, Mexico. June 2004.
 21. Public Health on the Border: The Paso del Norte Region. SCERP Watershed Vulnerability Project, Experts Panel Workshop, New Mexico State University. Las Cruces, NM. October 2003.
 22. Food Quality and Foodborne Disease: Assessing Water's Role. International Association for Food Protection, 90th Annual Meeting. New Orleans, LA. August 2003.
 23. Parasitic Foodborne Disease: Assessing the Risks. University of Georgia, Center for Food Safety Food Safety Workshop: Parasites in Meats and Fresh Produce. Griffin, GA. July 2003.

24. Microbial Waterborne Disease: Are We At Risk? The University of Texas Health Science Center at Houston, School of Public Health, Brownsville Campus. Brownsville, TX. June 2003.
25. Microbial Waterborne Disease: Are We At Risk? Ciclo de Conferencias Sobre Contaminacion del Agua, Universidad Autonoma de Sinaloa. Culiacan, Sinaloa, Mexico. March 2003.
26. HACCP: How Are Consumers Currently Protected? Centro de Investigacion en Alimentacion y Desarrollo, A.C. Fisiologia y Tecnologia Poscosecha de Frutas, Hortalizas y Granos. Culiacan, Sinaloa, Mexico. February 2003.
27. Microbial Waterborne Disease: Are We At Risk? Army & Air Force Exchange Service Grünstadt, Germany. August 2002.
28. Parasitic Foodborne Disease: Are We At Risk? University of Georgia, Center for Food Safety, Parasitic Food Safety Workshop. Griffin, GA. July 2002.
29. Waterborne Disease: Are We At Risk? New Mexico State University, Biology Seminar Series. Las Cruces, NM. March 2002.
30. Environmental Science and Engineering Ph.D. Program, The University of Texas at El Paso. El Paso, TX. October 2001.
31. Waterborne Disease: Are We At Risk? The New Mexico Regional Honors Institute, Dona Ana Branch Community College. Las Cruces, NM. October 2000.
32. Waterborne Disease: Are We At Risk? 15th Annual Groundwater Foundation Fall Symposium. Atlanta, GA. November 1999.
33. Waterborne Disease: Are We At Risk? The National Food Safety and Toxicology Center, Michigan State University. Lansing, MI. December 1998.
34. Detecting *Escherichia coli* O157:H7 Using Cultural and Molecular Methodologies. National Cattlemen's Beef Association, Kansas State University. Manhattan, KS. August 1998.
35. Risk Assessment of Waterborne Coxsackievirus and Rotavirus. American Society for Microbiology, Workshop Faculty. Miami, FL. May 1997.

RESEARCH – Other Presentations

1. Exercise and the Social Environment: Factors Affecting Hispanic Women Living in the US/Mexico Border Region (Wise Thomas, S., D. deHeer, J. Salinas, K. Mena, A.H. Redelfs and H. Balcazar.) American Public Health Association Annual Meeting & Expo. Denver, Colorado. October 29-November 2, 2016.
2. A Basic Scientist's Evolution to Community Engaged Research: Lessons Learned. Poster Presentation by K.D. Mena and S. Davis. National Institute on Minority Health & Health Disparities Grantees' Conference. Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity. National Harbor, Maryland. December 1-3, 2014.
3. Integrating Community Engagement in a Border Biomedical Research Center. Poster Presentation by S. Davis and K.D. Mena. National Institute on Minority Health & Health Disparities Grantees' Conference. Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity. National Harbor, Maryland. December 1-3, 2014.
4. Biology Senior Seminar, University of Texas at El Paso, El Paso, TX July 2014.
5. *Helicobacter pylori*, Protozoa, Helminths and Household Hygiene in a Binational Sample of a US-Mexico Border Population. Oral Presentation by V.M. Cardenas. 136th APHA Annual Meeting and Exposition, San Diego, CA, October 2008.
6. Cross-sectional Analysis of *Helicobacter pylori* Infection and Growth in a Cohort of Children in the US/Mexico Border. Poster Presentation by V.M. Cardenas. 136th APHA Annual Meeting and Exposition, San Diego, CA, October 2008.

7. *Helicobacter pylori*, Protozoa, Helminths and Household Hygiene in a Binational Sample of a US-Mexico Border Population. Poster Presentation by V.M. Cardenas. US-Mexico Forum on Infectious Disease, El Paso, TX, April 2008.
8. Risk Assessment of Waterborne Adenoviruses. Oral Presentation by C.P. Gerba. World Congress on Ozone and Ultraviolet Technologies, International Ultraviolet Association, Los Angeles, CA, August 2007.
9. Evaluation of Respiratory Symptoms and their Possible Association with Residential Indoor Bioaerosol Concentrations and other Environmental Influences. Poster Presentation by C.M. Flores, student. Society for Advancement of Chicanos and Native Americans in Science, Research Exposition 2007, The University of Texas at El Paso. El Paso, TX. April 2007.
10. Prevalence of *Neospora caninum* in Three Dairy Farms in Georgia and Two in Texas. Poster Presentation by Y.R. Ortega. Center for Food Safety Annual Meeting, University of Georgia, Atlanta, GA. February 2007.
11. Bioaerosols: An Introduction and Overview of Some Current Research. Oral Presentation by S.G. Gibbs. Department of Botany and Microbiology Symposium, Faculty of Science, Cairo University. Dokki, Giza, Egypt. November 2006.
12. Bioaerosol Migration from Confined Animal Feeding Operations. Oral Presentation by S.G. Gibbs. Air Pollution Department Symposium. National Research Centre. Dokki, Giza, Egypt. November 2006.
13. Risk Factors Associated with Increased Risk for Unintentional Poisoning Among Children Living on the U.S./Mexico Border. Poster Presentation. Society for Epidemiologic Research, 37th Annual Meeting. Salt Lake City, UT. June 2004.
14. Risk Factors Associated with Increased Risk for Unintentional Poisoning Among Children Living on the U.S./Mexico Border. Poster Presentation. Society for Perinatal and Pediatric Epidemiology. Salt Lake City, UT. June 2004.
15. Factors Associated with Acute Unintentional Childhood Poisonings Among Children Living on the U.S.-Mexico Border. Poster Presentation. Center for Border Health Research, Paso del Norte Health Foundation, El Paso, TX. November 2003.
16. Factors Associated with Increased Risk of Poisoning Among Children Living on the U.S./Mexico Border. Poster Presentation. American Public Health Association, 131st Annual Meeting. San Francisco, CA. November 2003.
17. *Helicobacter pylori* Infection Rates in the First Three Years of Life: U.S.-Mexico Cohort Study. Presentation. Society for Epidemiologic Research, 36th Annual Meeting. Atlanta, GA. June 2003.
18. Quantitative Risk-based Microbial Standards for Irrigation Water Quality. Poster. Presentation. American Society for Microbiology, 103rd General Meeting. Washington, D.C. May 2003.
19. Evaluation of Models Used in Assessing the Public Health Impact Microorganisms in Water. Seminar Speaker with Dr. Melchor Ortiz. The University of Texas Health Science Center at Houston, School of Public Health, El Paso Campus. El Paso, TX. October 2002.
20. Speaker. The University of Texas Health Science Center at Houston, School of Public Health, El Paso Campus. El Paso, TX. August 2000.
21. Waterborne Adenovirus: A Risk Assessment. Speaker. International Association on Water Quality Health-Related Water Microbiology. Mallorca, Spain. October 1996.
22. Proposed Plan of Analyses of Archived Water Samples: Which Viruses Are Threatening Our Health? Fellowship Presentation. 1996 AAAS/EPA Summer Fellow Presentations, Environmental Science & Engineering Fellowship American Association for the Advancement of Science/United States Environmental Protection Agency. Washington, D.C. August 1996.

23. American Society for Microbiology, 35th Annual Arizona Branch. Tucson, AZ. February 1996.
24. Risk Assessment of Waterborne Rotavirus and Coxsackievirus. Water Quality Technology Conference Enhancing Water Quality: Source to Tap. New Orleans, LA. November 1995.
25. American Society for Microbiology, 33rd Annual Arizona Branch. Tempe, AZ. April 1994.
26. Speaker. Arizona Environmental Studies Conference. Flagstaff, AZ. March 1994.
27. The Detection of *Cryptosporidium* Oocysts and *Giardia* Cysts in Cistern Water in the U.S. Virgin Islands. Poster Presentation. American Society for Microbiology, 93rd General Meeting. Atlanta, GA. May 1993.
28. The Detection of *Cryptosporidium* Oocysts and *Giardia* Cysts in Cistern Water in the U.S. Virgin Islands. Conference on Water Quality in the Western Hemisphere. San Juan, PR. April 1993.
29. Speaker. American Society for Microbiology, Florida Branch. Orlando, FL. February 1993.
30. Speaker. Suncoast Biotech Conference. Tampa, FL. October 1992.

RESEARCH – Funding

Current Projects

Co-Principal Investigator. BEACHES (Beach Exposure and Child HEalth Study) (University of Miami), Gulf of Mexico Research Initiative, (Total cost: \$1,000,000; Percent effort: 20%), Project period: 01/01/18-12/31/19.

Co-Investigator. Hazardous Materials Worker Health and Safety Training (U45) Cooperative Agreement, National Institutes of Health, (Total cost: \$577,124; Percent effort: 5%), Project period: 06/01/17-07/31/20.

Co-Investigator. Biosafety and Infectious Disease Training Initiative (BIDTI), National Institutes of Health, (Total cost: \$129,630; Percent effort: 3%), Project period: 08/01/17-05/31/19.

Co-Director, Community Engagement Core. *Border Biomedical Research Center* (UTEP), National Institutes of Health, (Total cost: \$14,400,000; Percent effort: 16%), Project period: 07/01/14-06/30/19.

Previously Funded Projects

Co-Principal Investigator. *Transdisciplinary Research Consortium for Gulf Resilience on Women's Health (GROWH)* (Tulane), National Institutes of Health, (Total cost: \$185,928; Percent effort: 6%), Project period: 07/01/11-06/30/16.

Principal Investigator, *Microbial Risk Assessment at the ISS: Data Needs and Methods to Quantify Health Risks Associated with Microorganism Exposures via Air and Surfaces*, National Aeronautics and Space Administration, (Total cost: \$5,000; Percent effort: 4.5%), Project period: 06/15/14-08/15/14.

Co-Principal Investigator, *Exploratory NCMHD Centers of Excellence*, National Institutes of Health, (Total cost: \$174,014; Percent effort: 15%), Project period: 10/01/08-06/30/13.

Principal Investigator, *Quantitative Microbial Risk Model for Food at the ISS*, National Aeronautics and Space Administration, (Total cost: \$12,000; Percent effort: 10%), Project period: 02/01/12-10/31/12.

Principal Investigator, *Quantitative Microbial Risk Assessment at the ISS: Data Integration and Impact*, National Aeronautics and Space Administration, (Total cost: \$30,000; Percent effort: 58%), Project period: 04/01/11-09/30/11.

Principal Investigator, *Quantitative Microbial Risk Model - Astronauts and Microbes: Building a Quantitative Microbial Risk Assessment Framework*, National Aeronautics and Space Administration, (Total cost: \$100,000; Percent effort: 48%), Project period: 10/01/08-09/30/10.

Principal Investigator, *Quantitative Microbial Risk Model - Astronauts and Microbes: Building a Quantitative Microbial Risk Assessment Framework*, National Aeronautics and Space Administration, (Total cost: \$64,871; Percent effort: 90%), Project period: 03/01/08-09/30/08.

Principal Investigator, *Quantitative Microbial Risk Model*, National Aeronautics and Space Administration, (Total cost: \$25,542; Percent effort: 36%), Project period: 03/01/07-02/29/08.

Collaborator (Centro de Investigación en Alimentación y Desarrollo A.C., Sinaloa, MX), *Microbial Risk Assessment Using the Source Tracking Methodologies during the Pre- and Post-Harvest of Bell Pepper*, National Council of Science and Technology and National Department of Agriculture, (Total cost: \$70,000; Percent effort: 0% - funds not available for U.S. investigator), Project period: 01/01/06-08/31/07.

Collaborator (Centro de Investigación en Alimentación y Desarrollo A.C., Sinaloa, MX), *Microbial Risk Assessment of the Water from Beaches of the State of Sinaloa Using Microbial Source Tracking Methodologies*, National Council of Science and Technology and National Commission of Water, (Total cost: \$60,000; Percent effort: 0% - funds not available for U.S. investigator), Project period: 01/01/05-08/31/06.

Principal Investigator, *Water Consumption Along the Border: Determining Water Intake and Source Patterns Within a U.S.-Mexico Border Population*, Center for Border Health Research, Paso del Norte Health Foundation, (Total cost: \$73,283; Percent effort: 5%), Project period: 09/01/04-12/31/06.

Principal Investigator, *Optimization of Host Cell Capture and Quantitative Polymerase Chain Reaction (HCC-qPCR) for the Rapid Detection of Potentially Infectious Viruses in Water*, American Water Works Association Research Foundation, (Total cost: \$183,533; Percent effort: 11%), Project period: 02/01/04-02/28/07.

Co-Principal Investigator, *The Paso del Norte Gastro Intestinal Study*, Center for Border Health Research, Paso del Norte Health Foundation, (Total cost: \$75,000; Percent effort: 0% - limited funds for salary support per agency guidelines), Project period: 11/01/03-09/01/04.

Principal Investigator, *Declining Vitamin Use Among Postpartum Mexican-American Women: An Educational Intervention*, March of Dimes, (Total cost: \$215,000; Percent effort: 0% - funds not available for salary support), Project period: 06/01/02-05/31/04.

Co-Principal Investigator, *Project SPLASH in Peri-urban Communities of Ciudad Juarez*, Johnson & Johnson, (Total cost: \$39,997; Percent effort: 0% - funds not available for salary support), Project period: 04/01/03-10/01/03.

Co-Principal Investigator, *Helicobacter pylori Infection in Children on the U.S.-Mexico Border*, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, (Total cost: \$366,839; Percent effort: 10%), Project period: 09/01/02-08/31/04 and 05/01/05-04/30/06.

Principal Investigator, *Childhood Poisonings: A Pilot Study to Determine Factors Associated with Increased Risk Among U.S.-Mexico Border Children*, Center for Border Health Research, Paso del Norte Health Foundation, (Total cost: \$74,999; Percent effort: 7%), Project period: 10/01/01-04/01/03.

SERVICE – University of Texas Health Science Center at Houston School of Public Health

- Online MPH Task Force (2017)
- Stallones Lecture Planning Committee (2017)
- Interim Regional Dean, El Paso Campus, UTSPH (2016-present)
- Council on Education for Public Health Steering Committee (2016)
- Epidemiology, Human Genetics, and Environmental Sciences Faculty Search Committee (2016-present)
- School-wide Course Review Committee (2016-present)
- Acting Dean, El Paso Campus, UTSPH (2014)
- Executive Council, UTSPH (2014 – present)
- Director, MD/MPH Dual Degree Program with Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine (2014 – present)
- Six-Year Review Committee Chair, UTSPH (2014)
- EOHS Curriculum Committee, co-Chair (2013 – present)
- Academic Council, UTSPH (2013 – present)
- Faculty Search Committee, El Paso Regional Campus (2013-2014)
- EOHS Preliminary Exam Committee, Member (2013-2014, 2016-present)
- EOHS Capstone Committee (2013 – 2014)
- Six-Year Review Committee, UTSPH (2013)
- Doctoral Compact Committee, UTSPH (2013)
- Faculty Awards Committee, UTSPH (2012 – 2015)
- Co-Director, MD/MPH Dual Degree Program with Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine (2011 – 2013)
- Admissions Committee, UTSPH (2011– present)
- Program Head, Environmental and Occupational Health Sciences (2010 – present)
- CEPH Accreditation Steering Committee (2010 – 2012)
- EOHS Faculty Search Committee Chair (2010-2012)
- Curriculum Redevelopment Group, Environmental and Occupational Health Sciences (2009 – 2012)
- Culminating Exam Committee (2009 – 2011)
- UTSPH Web Committee (2009 – 2010)
- Member, Infectious Disease Research & Teaching Program Planning Committee (2008)
- Member, Faculty Council Regional Campus Subcommittee (2007)
- Member, Faculty Council (2006-2007)

- Faculty Advisor, Student Governance Organization (2006-2007)
- Foundations Course Unit Leader, Environmental and Occupational Health Division (2006)
- Member, Research Strategic Planning Subcommittee, Environmental and Occupational Health Division (2005)
- Member, Admissions Committee (2005-2007)
- Member, The University of Texas School of Public Health/The University of Texas at El Paso Joint Committee for Cooperative Programs in Public Health (2005-2006)
- Member, Six-Year Review Committee (2005)
- Member, Academic Program Review Subcommittee Chair, Environmental and Occupational Health Division (2005)
- Member, Academic Program Review Committee, Environmental and Occupational Health Division (2004-2006)
- Member, Committee regarding Core Course Objectives, Environmental Sciences Discipline (2003-2004)
- Member, Faculty Affairs Committee (2002-2004)
- Member, Student Research Funds Review Committee (2002-2005)
- Member, Committee on the Joint Environmental Health M.P.H. (2002-2005)
- Member, Educational Enhancement Committee, Environmental Sciences Discipline (2002)
- Member, Interim Curriculum Committee, Environmental Sciences Discipline (2002)
- Member, Environmental Sciences Faculty Search Committees (two) (2001-2002)

SERVICE – Local Community

- BUILDing SCHOLARS Program Supermentor (2017)
- Life Sciences Task Force Chair, Borderplex Alliance, El Paso Region (2017-present)
- Future Ready El Paso, El Paso, Texas (2017)
- Life Sciences Task Force co-Chair, Borderplex Alliance, El Paso Region (2017)
- Public Service Board, El Paso Water, El Paso, Texas (2016-present)
- University of Texas at El Paso College of Health Sciences Dean Search Committee (2016-2017)
- University of Texas at El Paso Department of Public Health Sciences, Community Advisory Board (2016)
- Community and Academic Partnerships for Health Science Research (CAPHSR), University of Texas at El Paso (2016)
- University of Texas at El Paso Department of Public Health Sciences Community Health Faculty Search (2016)
- University of Texas at El Paso Department of Public Health Sciences Environmental Health Faculty Search (2016)
- BUILDing SCHOLARS Program Supermentor (2016)
- Borderplex Alliance, El Paso Region (2015-present)
- BUILD Faculty Mentor, University of Texas at El Paso (2015-2016)
- Advanced Water Purification Project video, El Paso Water Utilities (2015)
- Global Connections Map Filming, Water Reuse Research Association (2015)
- Institute for Health Living, Deputy Director Search Committee (2014)
- UTEP Environmental Health Conference planning committee and conference responder, El Paso, Texas (2013-2014)
- Summer Scholars Academy, Faculty Mentor, UTEP (2013)
- KTEP, Live 30-Minute Interview, public health, El Paso, Texas (2013)

- ABC KVIA Channel 7, Interview, El Paso, Texas (2011)
- El Paso League of Women Voters, Presentation, El Paso, Texas (2011)
- Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine, Society, Community and the Individual (SCI) Curriculum, Environmental Thread Director, El Paso, Texas (2009-present)
- Paso Del Norte Group, El Paso, Texas (2009-2014)
- Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine, Society, Community and the Individual (SCI) Curriculum Subcommittee Chairperson for Environmental and Occupational Health, El Paso, Texas (2008 – present)
- Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine, Planning Committee for Student Immersion Experience, El Paso, Texas (2008 – present)
- Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine, Society, Community and the Individual (SCI) Curriculum Committee, El Paso, Texas (2008 – present)
- Texas Department of State Health Services, Presentation, El Paso, TX (2006)
- PBS Documentary “Planet H2O” website questionnaire (2005)
- Local radio show regarding research and public health issues, El Paso, TX (2005)
- El Paso Lion’s Club, Presentation, El Paso, TX (2005)
- Delta Delta Delta El Paso Alumnae Chapter President, El Paso, TX (2005-2008)
- Community Advisory Board, Texas Tech University Health Sciences Center, El Paso, TX (2004)
- PBS&J, Consultant regarding environmental health (community) issues, Houston, TX (2003-2006)
- Junior League of El Paso, Inc., El Paso, Texas (2002-present)
- Environmental Health Coalition, El Paso, TX (2001-present)
- Delta Delta Delta El Paso Alumnae Chapter, El Paso, TX (2001-present)
- El Paso County Commissioners Court, El Paso, TX (2001)
- Unity Center/Reach 2000 Board Member, Roswell, NM (2000-2001)
- Delta Delta Delta Roswell Alumnae Chapter Vice President, Roswell, NM (1999-2001)
- Reach 2000 - Healthier Communities Project, Roswell, NM (1999)
- Las Lianas Auxiliary of Assistance League, Chaves County, NM (1999)
- Department of Health, Public Health Division, Roswell, NM (1999)
- Community Cares, Roswell, NM (1999)
- Border Health Office, Advisory Council, Las Cruces, NM (1999)
- Turning Point Tri-County Partnership, Chaves County, NM (1999)
Occupational Health Subcommittee Chairperson (1999)
- Assessment and Planning Excellence through Community Partners for Health, Roswell, NM (1999)

SERVICE – Academic Community

Grant Review Panels

- Grant Proposal Reviewer, Border Biomedical Research Center, University of Texas at El Paso (2017)
- Grant Proposal Reviewer, The Water Institute at the University of North Carolina (2013)
- Grant Proposal Reviewer, Hispanic Health Disparities Research Center (2011)
- Grant Proposal Reviewer, Pilot Project Research Training Program of the Southwest Center for Occupational Safety and Health (2003-2009)

- Grant Proposal Reviewer, United States Environmental Protection Agency (2005-2008)
- Grant Proposal Reviewer, National Research Initiative Competitive Grants Program, United States Department of Agriculture (1998-present)

Advisory Boards

- Medical Center of the Americas Foundation, Board (2017)
- Water Environment and Reuse Foundation, Project Advisory Committee (2016-2017)
- Medical Center of the Americas Foundation, Scientific Advisory Committee (2016-present)
- EPA STAR Project Advisory Board, UTEP (2015-present)
- WaterReuse Association and Research Foundation, Project Advisory Committee, Framework for Public Health Monitoring Workshop (2014-present)
- National Water Research Institute, Advisory Panel, El Paso, Texas (2014-present)
- National Science Foundation-National Water Research Institute, Direct Potable Reuse (DPR) Treatment Workshop, Austin, Texas (2014)
- USEPA Chartered Science Advisory Board (2013-2016)
- USEPA Science Advisory Board Drinking Water Committee (2013-2016)
- Pharmaceutical Disposal Advisory Group, Texas Commission on Environmental Quality (TCEQ) (2010)
- Water Environment Research Foundation, Two Project Subcommittees (2003-2009)
- The Groundwater Foundation (1999-2009)
- Southwest Center for Environmental Research and Policy, Expert Panel (2003)

Editorial Positions

Editorial Board Member (since 2002): *International Journal of Environmental Health Research*

Editorial Board Member (2013): *ISRN Bacteriology*

Manuscript Reviewer: *American Journal of Tropical Medicine and Hygiene, Critical Reviews in Environmental Science and Technology, Environmental Science & Technology, International Journal of Environmental Health Research, Journal of Water and Health, European Journal of Household and Personal Care, Letters in Applied Microbiology, Water Research, Wilderness and Environmental Medicine, University of Mauritius Research Journal, Journal of Applied Microbiology, Journal of Environmental Science and Health, Ecological Indicators, Zoonoses and Public Health, Epidemiology and Infection, BioMed Central Microbiology, International Journal of Hygiene and Environmental Health, FEMS Microbiology Letters, International Journal of Occupational and Environmental Health, Water Policy, Environmental Modeling & Assessment, American Journal of Infection Control, Journal of Occupational & Environmental Hygiene, Annals of Clinical Microbiology and Antimicrobials, Reviews in Environmental Science and Bio/Technology, Water and the Environment, Science of the Total Environment*

Other Review Positions

- Academic Reviewer, Acorn GLP Consulting (2006)
- Reviewer, John Wiley & Sons, Inc. (2006)
- Curriculum Reviewer, Water Resources Research Center, The University of Arizona (1997)

SERVICE – Professional Organizations

Leadership/Committees

- NIH, RCMI Translational Research Network, Community Engagement Cluster Co-Leader (2013-present)
- Member, The Groundwater Foundation, Pathogenic Contamination Prevention Committee, Pathogen Project: Pathogens in Drinking Water (2006-2009)
- Member, The Groundwater Foundation, Board of Directors (2005-2009)
- Member, The Groundwater Foundation, Executive Committee (2004-2007)
- Vice Chair, Public Interest Advisory Forum, American Water Works Association (2003-2006; Member, 2003-2009)
- Member, Society for Risk Analysis, Food and Water Specialty Group (2003 - present)
- Member, The Groundwater Foundation, Technical Advisory Committee (2000-2005)
- Member, The Groundwater Foundation, Executive Committee (1999)

SERVICE – Other

- CTV News – Canada, Live Television Interview (08/30/2017), Houston and Waterborne Illnesses from Hurricane Harvey
- Healio Infectious Diseases in Children, Commentary on Premise Plumbing-related Outbreaks, Interview (2017)
- NPR – Austin, Texas, Report Finds Texas Leads The Nation in Safe Drinking Water Act Violations, Interview (2017)
- Careers in Public Health & UTHealth. El Paso City Health Department, Border Health Services, El Paso, Texas (2017)
- Public Health & UTHealth. Greater El Paso Association of Realtors, El Paso, Texas (2017)
- CTV News - Canada, Live Television Interview (08/02/2016), Water Woes in Rio (2016)
- National Geographic News, Water Quality, Pollution, and Contaminants in Rio de Janeiro's Guanabara Bay (2016)
- Gizmodo, Interview about the Water Contamination in Rio and Olympic Athlete Risks (2016)
- Orange County Register, Southern California, Interview about the Water Venues at the Rio Olympics (2016)
- Associated Press, Interview about Bacterial Indicator Organisms and Rio's Waters (2016)
- Vice.com, Interview about Drinking Water and Swimming Risks in Rio (2016)
- Wired.com, Interview regarding New Antimicrobial Suit for the U.S. Rowing Team, Rio Olympics (2016)
- Yahoo Sports, Olympic Athletes' Health Risks (2016)
- WYAY News Radio 106.7 Atlanta, Live Radio Interview, Health Concerns Related to the Rio Olympic Games (2016)
- HBO Sports Interview, Health Risks to Olympians in Rio (2016)
- Sirius XM Canada Inc., Ontario, Rio's Polluted Olympic Waters (2016)
- Undark Magazine, Knight Science Foundation and MIT, Health Risks to Athletes at Rio Olympics (2016)
- AirTalk, KPCC, NPR, Southern California, Water Quality at Rio's Olympics (2016)
- San Antonio Express-News, Flint Michigan Water Crisis (2016)
- 240+ print and video media outlets, international, sick athletes in Brazil (2015)
- Associated Press, Television Interview, ill athletes in Rio's Olympic waters (2015)

- 700+ print media outlets, international, polluted waters at 2016 Olympics in Rio (2015)
- CTV News – Canada, Live Television Interview (07/30/2015), Water Pollution at 2016 Olympics (2015)
- CNBC, Live Television Interview (07/30/2015), Health Risks of Olympians in Rio (2015)
- Associated Press, Media Interview, polluted Olympic waters in Rio (2015)
- KURV 710 AM, Live On-Air Interview, norovirus outbreaks, McAllen, Texas (2013)
- 92 FM, Houston, Texas, Live On-Air Interview, bed bugs (2012)
- 92 FM, Houston, Texas, Media Interview, fungicide in orange juice (2012)
- Everyday Health, Media Interview, food poisoning (2011)
- ABC News, Investigative Story, lead in fruit juice (2011)
- Metro New York, Media Interview, foodborne disease and food safety tips (2010)
- National Aeronautics and Space Administration, Johnson Space Center, Houston, TX (2006-present)
- Milwaukee Water Works, Milwaukee, WI (2005-present)
- Wilmer Cutler Pickering Hale and Dorr LLP, Boston, MA (2005)
- United States Environmental Protection Agency, Washington, D.C. (2004-present)
- PBS&J, Houston, TX (2003-2006)
- GRAM, Incorporated, Albuquerque, NM (2003-2004)
- Army & Air Force Exchange Service, Grünstadt, Germany (2002-2003)
- Dairy Producers of New Mexico, Roswell, NM (2000-2001)
- Solid Waste Bureau, New Mexico Environment Department, Santa Fe, NM (1999-present)
- The Groundwater Foundation, Proceedings of the 15th Annual Groundwater Foundation Fall Symposium, Lincoln, NE (1999-2000)
- The Clorox Company, Pleasanton, CA (1998)
- EA Engineering, Science, and Technology, Inc., Silver Spring, MD (1996-1997)

TEACHING

The University of Texas Health Science Center at Houston – Graduate Courses

Courses (Primary Instructor/Co-Instructor)

- Capstone Course (PH 9996 online, 3 credit hours) – Culminating experience, 2014, 2016, 2017 (co-Instructor)
- Environmental Microbiology (PH 2280 ITV, 3 credit hours) – Discussion of environmental transmission of pathogens, 2010, 2016 (co-Instructor)
- Pilot Capstone Course (PH 5998 ITV, 3 credit hours) – Culminating experience, 2010 (co-Instructor)
- Overview of Environmental Health (PH 2110 ITV and online, 4 credit hours 2001-2003, 3 credit hours 2005-present) – MPH core course in environmental health sciences; Introduction to the principles of environmental health, 2001-2003, 2009-present and 2005-2008 (co-Instructor)
- Environmental Health Risk Assessment (PH 2498 ITV, 2 credit hours) – Examination of the risk assessment process to address environmental hazards, 2008 (co-Instructor)
- Site Visits in Environmental Health (PH 2498 ITV, 2 credit hours) – Exploration of occupational settings that address public health/environmental issues, 2008 (co-Instructor)
- Research Proposal Writing (PH 2498, 3 credit hours) – Overview of the fundamentals of writing research proposals, 2008
- Environmental Microbiology (PH 2498, 3 credit hours) – Examination of the interdisciplinary issues related to environmental microbiology with an emphasis on public health, 2007

- Risk Assessment and Environmental Health, (PH 2498, 3 credit hours) – Application of the risk assessment process in addressing public health problems, 2003
- Practicum (PH 9997, varying credit hours) – Hands-on public health experience for students, 2002-2003, 2006
- Individual Study in Environmental Science (PH 2499, varying credit hours) – Hands-on research experience for students (laboratory and paper studies), 2001-present
- Thesis Research (PH 9998, varying credit hours) – 2001-present

Courses (Lecturer)

- Environmental Microbiology (PH 2280, ITV, 3 credit hours) – Discussion of the public health impact of microorganisms in the environment, 2016
- Public Health Microbiology (PH 2280, ITV, 3 credit hours) – Examination of pathogens of public health concern, 2005
- Public Health in the Movies (PH 3998, 2 credit hours) – Discussion of public health issues and perspectives presented in the theater, 2005
- Epidemiology Proposal Development (PH 2720, ITV 2004-2007, online 2008, 3 credit hours) – Examination and application of the process of proposal writing, 2004-2008
- Recognition of Environmental and Occupational Hazards (PH 2130, ITV, 2 credit hours) – Overview of hazards in the environment, 2008-present
- Man's Impact on the Environment (PHW 2120 L, online, 3 credit hours) – Overview of environmental health issues, 2008

Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine

- Society, Community and the Individual – Incorporates environmental and overall public health issues in medical school curriculum, 2009-present

Eastern New Mexico University-Roswell – Undergraduate Courses

Courses (Primary Instructor)

- Biology (2 sections/semester, 3 credit hours) – Overview of the fundamentals of biology, 2000-2001
- Biology Laboratory (2 sections/semester, 3 credit hours) – Hands-on weekly experiments related to biology, 2000-2001
- Microbiology (1 section/semester, 3 credit hours) – Discussion of the various types of microorganisms, with an emphasis on their impact on human health; Course designed for nursing students, 2000-2001
- Microbiology Laboratory (1 section/semester, 3 credit hours) – Hands-on weekly experiments related to microbiology; Course designed for nursing students, 2000-2001
- Cell Biology (1 section/semester, 3 credit hours) – Examination of the structure, life cycle, and function of cells, 2000-2001
- Genetics (1 section/semester, 2 credit hours) – Examination of inheritance, 2001

Arizona Department of Corrections – Mens' Facility (Pima Community College)

Courses (Primary Instructor)

- Environmental Microbiology/Lab – Discussion of the fundamentals of environmental microbiology with an emphasis on water treatment, 1996-1997

The University of Arizona – Graduate/Undergraduate Courses

Courses (Lecturer)

- Environmental Microbiology – Overview of the principles of environmental microbiology from an agricultural perspective, 1994-1997
- Environmental Biotechnology – Discussion of technology used in agriculture and medicine, 1994-1997
- Watershed Management – Examination of how people and agriculture may influence water, 1994-1997

Courses (Teaching Assistant)

- Environmental Microbiology Laboratory – Hands-on experiments related to environmental microbiology, 1994

STUDENTS – Current (UTSPH unless noted otherwise)

PhD/DrPH Advisor

Christina K. Carstens, Epidemiology PhD Candidate (Houston Campus)
 Alice Djotsa, Environmental Science PhD Candidate (Houston Campus)
 Seth Parker, Environmental Science DrPH Candidate (Houston Campus)
 Tanu Uppal, Environmental Science PhD Candidate (Houston Campus)

PhD/DrPH Committee Member

Kyna Borel, PhD Candidate (Texas A&M University, College Station, Texas)
 Aleisha Elliott, Epidemiology PhD Candidate (San Antonio Campus)

MPH and MS First/Thesis Advisor

Jocelyn Antony, MD/MPH student
 Omar Baker, MD/MPH student
 Taylor Bramblett, MD/MPH student
 Jonathan Corpuz, MD/MPH student
 Zeni Crisp, MD/MPH student
 Dana Galvan, MD/MPH student
 Zachary Jenner, MD/MPH student
 Jisha Jose, MD/MPH student
 Elizabeth Lorence, MPH (Houston campus)
 Jennifer Nielsen, MD/MPH student
 Jeffrey Scott, MD/MPH student
 Mario Silva, Environmental Science MPH student
 Philip Velez, MD/MPH student
 Meredith Wittie, MD/MPH student
 Brian Wong, MD/MPH student

MPH/MS Committee Member

Jenny Moya, MS, University of Texas – El Paso

STUDENTS – Graduated

Doctoral Student Dissertation Advisor

Jacqueline D. Smith, PhD (Houston), Revising the National Ambient Air Quality Standards: The Integration of Science and Policy, 2005-2006

Sherrie Wise, DrPH (El Paso), Socio-cultural Predictors of Exercise Among Hispanic Women Living in a High-Risk Community Along the U.S.-Mexico Border, 2012-2014

MPH and MS First/Thesis Advisor

Gina I. Meza, MPH, Utilization and Awareness of Support and Custodial Services Among Older Adults in El Paso, Texas, 2001-2003

Sylvia F. Sustersick, MPH, Acculturation and Poisoning Risk in Low-Income Households in a U.S. - Mexico Border Population, 2001-2003

Celina Beltran, MPH, Water Quality Indices in a U.S.-Mexico Border Community: Implications for a Human Health Risk Assessment, 2002-2004

Zuzanne G. Martinez, MPH, Risk Assessment of Heterotrophic Plate Count (HPC) Bacteria in Potable Water Sources, 2002-2004

Ariana V. Arciero, MPH, The Importance of Dietary Folate: An Analysis of Dietary Folic Acid Intake Among Mexico-Born Versus U.S.-Born Women, 2003-2005

Yolanda L. Posada, MPH, Prevalence, Predictors and Health Consequences of Food Insecurity and Hunger in Migrant and Seasonal Farm Workers in the Paso Del Norte Border Region, 2003-2005

Arthur Alvarado, MPH, Health Beliefs of Foodservice Workers and Adherence to Food Safety Regulations to Prevent Foodborne Illness, 2003-2006

Laura Y. Sifuentes, MPH, Evaluating Methodologies for Detection and Enumeration of Enteric Viruses and *Cryptosporidium parvum*, 2005-2007

Kelcey D. Anderson, MPH, Drinking Water Quality Perception Along the U.S.-Mexico Border, 2005-2007

Carissa M. Flores, MPH, Evaluation of Residential Bioaerosol Concentrations and their Related Health Effects, 2005-2007

Flor A. Puentes, MPH, *Helicobacter pylori* Infection and the Effect on Growth in a Cohort of Children in the US/Mexico Border, 2005-2008

Hendrik de Heer, MPH, A Path Analysis of an After-School Health and Exercise Program for Elementary Children in El Paso, Texas, 2008- 2009

Kairav R. Shah, MPH, Hypertension and Cognitive Decline Among Patients of Alzheimer's Disease, 2007-2009

Berenise Rivera, MPH, Characterization of Fecal Contamination Targeting 16s rRNA Bacteroides Molecular Markers in the Santa Cruz River, Arizona, 2009-2011

Daniel Yuan, MPH, Capstone Course (Houston Campus), 2010-2012

Samantha Gunterman, MPH (Austin), Retrospective Analysis of Methicillin-Resistant *Staphylococcus aureus* (MRSA) Skin and Soft-Tissue Infections (SSTI) in a University Hospital Emergency Department (ED), 2011-2012

Romy Ghosh, MD/MPH, Physician Attitudes on the HPV Vaccine, 2010-2013

Mariam Weekes, MPH, Capstone Course, 2011-2013

Heather Fenley, MD/MPH, Capstone Course, 2011-2014

April Reyes, MPH, Capstone Course, 2012-2014

Alice Nyakeriga, MPH, Capstone Course, 2012-2014

Hector Ocaranza, MPH, The Success of *H. pylori* Eradication Therapy Using a Quadruple Sequential Treatment in Children with Gastrointestinal Symptoms Seen in a Pediatric Practice in the U.S.-Mexico Border Region, 2012-2014

Tanu Uppal, MPH, Environmental Influences on Fecal Bacterial Concentrations in Texas Marinas (Houston Campus), 2014-2015

Andrew Billnitzer, MD/MPH, Capstone Course, 2012-2015

Chetna Pande, MD/MPH, Capstone Course, 2012-2015

Maria Sheikh, MD/MPH, Capstone Course, 2012-2015

Zinmar Ma, MD/MPH, Capstone Course, 2012-2015

Rica Mauricio, MD/MPH, HIV and the Hispanic Woman, 2012-2015

Anand Narayanan, MD/MPH, Capstone Course, 2012-2015

Timothy Bullock, MD/MPH, Capstone Course, 2012-2016

Ashley Chapel, MD/MPH, Capstone Source, 2013-2016

Victoria Nunez, MD/MPH, Capstone Course, 2013-2016

Sarah Slief, MD/MPH, Capstone Course, 2013-2016

Leigha Sharp, MD/MPH, Colorectal Cancer Educational Intervention and Screening Outcomes, 2013-2016

Meredith Trubitt, MD/MPH, Patterns and Correlates of Internet Use, Cellphone Use, and Attitudes Towards Patient Portals Among a Predominantly Mexican-American Clinic Population, 2013-2016

Anthony Radosevich, MD/MPH, Capstone Course, 2013-2016

Johanna Gerwer, MD/MPH, Capstone Course, 2014-2017

Carolyn Henkel, MD/MPH, Frequent Users of the Emergency Department on the US-Mexico Border: Determining Risk Factors to Inform Interventions, 2014-2017

Isis Lopez, MD/MPH, Capstone Course, 2014-2017

Courtney Miller, MD/MPH, Capstone Course, 2014-2017

Patrick O'Malley, MD/MPH, Capstone Course, 2014-2017

Laura Palmer, MD/MPH, Capstone Course, 2014-2017

Loryn Wilson, MD/MPH, Capstone Course, 2014-2017

Daniel Welder, MD/MPH, Capstone Course, 2015-2017

Eric Estrada, MD/MPH, Capstone Course, 2014-2017

Other MPH and MS Student Committees

Yvonne Vasquez, MPH, Antibiotic Susceptibility Patterns of Urinary Tract Pathogens in El Paso, Texas, 2002

Salina M. Torres, MPH, Do Research Subjects Who Provide Stool Samples for Stool Antigen Testing Differ from those Who Do Not on *Helicobacter pylori* Risk Factors?, 2002-2003

Valerie Cortez, MPH, Antimicrobial Resistance Patterns of Systemic Pathogens in a Public and Private Hospital in Ciudad Juarez, Mexico, 2004-2005

Enedina Sosa, MPH (Brownsville), Water Usage Trends and Future Water Planning Strategies in Region M, 2005-2006

John Alvarez, MPH, The Relationship Between Alcohol Consumption and HDL Cholesterol: A Study of Hispanic Drinking Patterns, 2008-2009

Roberto Trevizo, MPH, The Role of Social Support in HIV Prevention Among Young Latino Men Who Have Sex with Men, 2006-2010

Elke Cumming, MPH, Residents' Risk Perception Due to Operations of a Copper Smelter Located Near Residential Communities in El Paso, Texas, 2008-2010

Ramu Gudigantala, MPH, Capstone Course, 2008-2010

Fernando Sanchez, MPH, Capstone Course, 2006-2010

Leslie Platz, MPH (Austin), Capstone Course, 2009-2011

Janet Strachan, MPH, Elimination of Racial/Ethnic Hepatitis B Vaccination Disparities in the U.S. in the 2007-2008 National Health and Nutrition Examination Survey, 2009-2011

Tomas Villarreal, MD/MPH, Frontier Medicine: The Epidemiology of New Mexico Search and Rescue Operations, 2010-2013

Jeff Mohlman, MD/MPH, Cardiovascular Screening Behaviors, Acculturation, and Family Cohesiveness in the El Paso Borderland Area, 2012-2015

Cesar Navar, MPH, Ultraviolet Light Inactivation of Wild-type Adenovirus Isolates and Polyomaviruses JC and BK, 2015-2017

STUDENTS – Graduated (Other Institutions)

Joseph D. Carreon, MS, Risk of Infection by *Campylobacter*, *Salmonella*, and Norwalk Virus: A Novel Application of Quantitative Microbial Risk Assessment, 2002-2003, Department of Epidemiology and Biostatistics, The University of Arizona (Committee Member)

Alain Mota, MS, Risk Assessment of *Giardia* and *Cryptosporidium* in Irrigation Water from the Culiacan River, 2003-2004, Interdisciplinary Studies, University of Texas – El Paso (Chair)

Yolanda McDonald, MS, Not Being Connected to a Community Water System: Water Quality and Health in El Paso *Colonias*, 2011-2012, Sociology and Anthropology, University of Texas – El Paso (Committee Member)

Joy Archuleta-Truesdale, PhD, Refining Molecular Approaches for Bacterial Source Tracking (BST) in Texas, 2011-2013, Environmental Science and Engineering, University of Texas – El Paso (Committee Member)

Victoria Ochoa, PhD, Risk Assessment of Waterborne *Cryptosporidium*, 2012-2014, Environmental Science and Engineering, University of Texas – El Paso (Committee Member)

Anthony Lechuga, MPH, Barriers to Disaster Preparedness, Evacuation, and Emergency Response in the *Colonias* of El Paso County, 2012-2014, Department of Public Health Sciences, University of Texas – El Paso (Committee Member)

Isaac Campos, PhD, Evaluation of Point of Use Drinking Water Treatment Systems for Colonias in the Southwest United States, Department of Civil Engineering, University of Texas – El Paso (Committee Member)

Jessi Howard, PhD, Bayou to Bench and Back: How Dissemination of Personal Air and Seafood Sample Results Are Improving Health Literacy in Southeast LA, Tulane University (Committee Member)

Anna Gitter, MS, Application of Quantitative Microbial Risk Assessment and Bacterial Source Tracking to Assess the Human Health Risk from Multiple Fecal Sources during Recreational Exposure in the Leon River Watershed, Texas A&M University (Committee Member)