Investigator(s):

Pedro Alvarez, Professor, Civil and Environmental Engineering; Donguk Kim, Assistant Professor, Inje University, Kimhae, Kyongnam, South Korea

Project Title:

Enhanced Anaerobic Bioremediation of Gasohol Spills

Year Funded:

2001

Amount Received:

\$20,000

Publications:

Ruiz-Aguilar, GM, Fernandez-Sanchez, JM, Kane, SR, Kim, D, Alvarez, PJJ. Effect of ethanol and methyltert-butyl ether on momaromatic hydrocarbon biodegradation: response variability for different aquifer materials under various electron-accepting conditions. Environ Toxicol Chem. 21(12):2631-9, 2002.

Grant Awards:

National Science Foundation. P. Alvarez, Pl. Environmental Impacts of Ethanol in Gasoline: A Planning Trip to Brazil. 8/15/01 - 8/14/02. \$12,915.

American Petroleum Institute. P. Alvarez, PI. Effect of Ethanol on BTEX Plume Length. 8/1/01 – 7/31/02. \$38,994.

National Science Foundation 0412046. P. Alvarez, PI. International Workshop: U.S.-Latin American Caribbean Environmental Problems and Sustainable Solutions, Cartagena, Colombia, May 2004. OISE INTERNATIONAL PLAN & WORKSHOPS, ENVIRONMENTAL ENGINEERING. \$28,464 04/15/2004

National Science Foundation 0410145. P. Alvarez, Pl. U.S.-Brazil Planning Visit: Environmental Impacts of Ethanol in Gasoline. OISE Americas Program 02/01/2004. \$3,003.

National Science Foundation 0224561. P. Alvarez, Pl. SGER: Remediation of PAHs in the Rhizosphere of Tropical Plants. 09/01/2000. \$100,000.

Investigator(s):

Leslie Dennis, Assistant Professor, Epidemiology; Laura Beane-Freeman, PhD Candidate; Epidemiology; Peter S. Thorne, Professor, Occupational and Environmental Health

Project Title:

Arsenic Exposure and Melanoma in Iowa

Year Funded:

2001

Amount Received:

\$20,000

Publications:

Arsenic Exposure and Melanoma in Iowa. Laura Beane-Freeman PhD Thesis, March 2003.

Beane Freeman LE, Dennis LK, Lynch, CF, Thorne PS, Just CL. Toenail arsenic content and cutaneous melanoma in Iowa. Am. J. Epidemiol., 160(7):679-687, 2004.

Grant Awards:

Innovations/Enhancements for a Consortium of Big-10 University Research & Training Reactors' Mini-Grant Program: PI, Cancer in Iowa as Related to Levels of Trace Elements in Toenails, Soil and Food, \$9,923, from Jul 14, 2003 to May 31, 2004.

NIH/NCI:PI, Trace Elements among Iowa Pesticide Applicators, \$100,000, from Jul 1, 2003 to Jun 30, 2005.

National Institutes of Health: Mentor, Meta-Analysis of Melanoma and Nevi, Marta Van Beek, PI, \$87,826, from Jul 1, 2001 to Jun 30, 2003.

American Cancer Society (ACS):PI, Cumulative Sun Exposure and Melanoma: A Meta-Analysis, \$261,000, from Jan 1, 2004 to Dec 31, 2005.

Investigator(s):

Caroline George, Assistant Professor, Pediatrics; Peter S. Thorne, Professor, Occupational and Environmental Health

Project Title:

Subchronic Endotoxin Lung Injury as a Model to Study Airway Wall Remodeling

Year Funded:

2001

Amount Received:

\$20,000

Publications:

George CL, White ML, O'Neill ME, Thorne PS, Schwartz DA, Snyder JM. Altered surfactant protein A gene expression and protein metabolism associated with repeat exposure to inhaled endotoxin. Am J Physiol Lung Cell Mol Physiol. 285(6):L1337-44, 2003.

Investigator(s):

Stephen J. Reynolds, Professor, Occupational and Environmental Health; John C. Johnson, Director, Hazardous Waste Site Health Assessment Program, Iowa Department of Public Health; Peter S. Thorne, Professor, Occupational and Environmental Health

Project Title:

Worker Exposure to Airborne Bacteria and Endotoxic at Wastewater Treatment Plants

Year Funded:

2001

Amount Received:

\$20,000

Investigator(s):

Michael Wichman, Chemist, University Hygienic Lab; John D. Vargo, Chemist, University Hygienic Lab; Dana W. Kolpin, Research Hydrologist, U.S. Geological Survey; Michael T. Meyer, Research Chemist, U.S. Geological Survey

Project Title:

Method Development and Exploratory Monitoring for Human and Veterinary Pharmaceuticals in Surface, Waste, and Drinking Water

Year Funded:

2001

Amount Received:

\$20,000

Publications:

Kolpin DW, Skopec M, Meyer MT, Furlong ET, Zaugg SD. Urban contribution of pharmaceuticals and other organic wastewater contaminants to streams during differing flow conditions. Sci Total Environ. 2004 Jul 26;328(1-3):119-30.

Stackelberg PE, Furlong ET, Meyer MT, Zaugg SD, Henderson AK, Reissman DB. Persistence of pharmaceutical compounds and other organic wastewater contaminants in a conventional drinking-water-treatment plant. Sci Total Environ. 2004 Aug 15;329(1-3):99-113.

Boxall AB, Kolpin DW, Halling-Sorensen B, Tolls J. Are veterinary medicines causing environmental risks? Environ Sci Technol. 37(15):286A-294A, 2003. Review.

Campagnolo ER, Johnson KR, Karpati A, Rubin CS, Kolpin DW, Meyer MT, Esteban JE, Currier RW, Smith K, Thu KM, McGeehin M. Antimicrobial residues in animal waste and water resources proximal to large-scale swine and poultry feeding operations. Sci Total Environ. 299(1-3):89-95, 2002.

Kolpin DW, Furlong ET, Meyer MT, Thurman EM, Zaugg SD, Barber LB, Buxton HT. Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: a national reconnaissance. Environ Sci Technol. 36(6):1202-11, 2002.