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Research

Year	Sponsor/Amount	Topic
1991-1993	Indianapolis Department of Public Works	Water Quality Modeling of the White River
1992-1993	Soil and Water Conservation Com., Lake County, IN (Supported with Section 319 and 205 Funds of the Federal Water Pollution Control Act)	Urban Targeting of Non-point Source Pollution in the Grand Calumet River Watershed
1992	U.S. Environmental Protection Agency	Research on the Distribution of Hydrophobic Organic Chemicals Between Sediment Solids and the Water Phase
1992-1994	Purdue Research Foundation	Chemical Oxidation of Hazardous Materials Solubilized within Surfactant Micelles
1993-1996	National Science Foundation	Modeling the Chemical Activity of Hydrophobic Organic Compounds in Water in the Presence of Co-Solutes
1994	U.S. Army, Construction Engineering Research Laboratory, subcontract through U. of Illinois (total award to Purdue and U. Illinois \$150,000)	Photochemical Treatment of Munitions Wastewater Constituents
1994-1997	U.S. Environmental Protection Agency	Predictive Models for the Mobility of Ionizable Organics in Soil Systems
1997-1998	U.S. Environmental Protection Agency	Continuation - Predictive Models for the Mobility of Ionizable Organics in Soil Systems
1994-1995	Purdue Research Foundation	Surfactant - Enhanced Soil Remediation
1994	U.S. Army, Construction Engineering Research Laboratory, Champaign, IL	Photochemical Treatment of Munitions Wastewater Constituents
1994-1996	Electric Power Research Institute (EPRI)	Factors Affecting the Effectiveness of SDBS in Reducing the Formation of Acidic Leachate from Active Coal Piles
1997-1999	NSF Academic Research Infrastructure (ARI) Program	Renovation of the Environmental Engineering Analytical Laboratories, Civil Engineering Rooms 3103, 3104, 3119, and 3119, 1997/ required 50% matching from Purdue, total project budget= \$892,800

1998-2000	U.S. EPA, Office of Research and Development, Environmental Engineering Research Division	Hydrodynamic Mixing Effects on Macro- and Micro- Emulsification of Nonaqueous Phase Liquids into Water
1999-2000	Purdue Research Foundation	Comparison of Planar and Radial Models for Describing Counter-Ion Association to Micelles
2000-2001	Chemical Manufacturer's Association (currently American Chemistry Council)	Brominated Flame Retardants: Environmental Photochemical Reactions of Decabromodiphenyl Ether
Jan 2001-2003	NiSource	Laboratory Studies to Characterize the Performance of a Sand Cap over Tar-Contaminated Sediment: Grand Calumet River, Hammond, IN
July 2002 - June 2003	Showalter Trust Foundation	"Innovative Technologies for Accelerated Groundwater Clean-up and Remediation Performance Assessment at Contaminated Sites"; Principal
7/03-6/04	Showalter Trust Foundation	Occurrence and Fate of Emerging Organic Contaminants in Land-Applied Municipal Biosolids
2002-2003	U. S. Environmental Protection Agency	Contaminant Remediation Optimization Program (Jafvert & Nies subproject: <i>In Situ</i> Sediment Remediation with Zero Valent Iron for \$111,701)
2002-9/30/05	US Environmental Protection Agency	Environmental Photochemistry of Polybrominated Diphenylethers
2004-2005	USGS-Indiana Water Resources Research Center	Hydrological and Land Use control on the Nature & Cycling of Allochthonous Organic Carbon in mixed Land Use Water Sheds within Central Indiana (cost share = \$50,000)
2004-2008	NSF	NIRT: Response of Aquatic and Terrestrial Microorganisms to Carbon-Based Manufactured Nanoparticles (Jafvert & Filley subproject, \$311,825)
2004-2007	U. S. Environmental Protection Agency	Contaminant Remediation Optimization Project II (CROP II) (Jafvert & Ross subproject: Microbial Transformation of PAH Compounds within a Contaminated Sediment Sand Cap – Confirmation of Microbial Activity for \$150,000)
2005-2006	NiSource	Mitigating the Flux of MAHs and PAHs within an In Situ Sand Cap via Hydraulic control at the Grand Calumet River Former MGP Site, Hammond, IN

2005-2006	Advanced Concepts and Technologies International, LLC (ACT I)	Improved Detection & Remediation of NBC/CBRN/TIC/ TIM Contaminants in PotableWater
2006	Advanced Concepts and Technologies International, LLC (ACT I)	Equipment Grant for Improved Detection & Remediation of NBC/CBRN/TIC/ TIM
2006-2007	National Institutes for Water Resources Research Institute Program, USGS	2006 State Water Research Institute Program, with sub-proposal by Jafvert and Govindaraju entitled: Wireless Monitoring of Purdue's Constructed Wetlands
2006-2009	NSF	C4E4-Cyberinfrastructure for End-to-End Environmental Exploration