

Inez Hua
Professor, Civil Engineering
Purdue University

Research

- Eli Lilly: Testing Chemical Oxidation for Destruction of Organic, Compounds (PI: I. Hua, co-P.I.: P. S. C. Rao), 2006.
- National Science Foundation: An Investigation of Life-Cycle and Policy Aspects of Brominated Flame Retardants (PI: I. Hua, co-Principal Investigators: Leigh Raymond and Thomas P. Seager), 2005- 2008.
- NSF: REU SUPPLEMENT: MUSES: Life Cycle Assessment and Policy Aspects of Brominated Flame Retardants (PI: I. Hua, co-Principal Investigators: Leigh Raymond and Thomas P. Seager), 2005-2008.
- Advanced Concepts and Technologies, International: Improved Detection and Remediation of NBC/CBRN/TIC/TIM Contaminants in Potable Water (PI: I. Hua, co-Principal Investigators: Chad T. Jafvert and Ronald F. Turco), 2005-2006.
- U.S. EPA: Ecotoxicology of Brominated Flame Retardants in Great Lakes Biota (PI: I. Hua, co-Principal Investigators: Maria S. Sepúlveda, Hugo Ochoa-Acuña, Trent Sutton), 2005-2007.
- Joint Transportation Research Projects/Indiana Department of Transportation (JTRP/INDOT): Innovative Remediation Technology Implementation Plan for the Crawfordsville INDOT ROW Site (PI: I. Hua, Co-Principal Investigators: Linda S. Lee and P. Suresh C. Rao), 2005-2007.
- NSF: The Future Role of Ecological Engineering Science in Undergraduate Engineering Education (Principal Investigator: Loring F. Nies; co-principal investigators: I. Hua, Rabi Mohtar, Marne Helgesen, Julie Ann Stuart), 2003-2006.
- Joint Transportation Research Projects/Indiana Department of Transportation (JTRP/INDOT): Remediation of Aromatic Hydrocarbons in Low Permeability Soils: Updating the Remediation Decision Tree (PI: I. Hua), 2005-2006.
- The Technology Store, Inc. (TTS, Inc.): Molecular Weight Reduction of Asphaltenes via Sonochemical Treatment (PI: I. Hua), 2004.

- U.S. EPA: Environmental Photochemistry of Polybrominated Diphenylethers (PI: Chad T. Jafvert, Co-PI: I. Hua), 2002-2005.
- Showalter Trust Foundation: Innovative Technologies for Accelerated Groundwater Clean-up and Remediation Performance Assessment at Contaminated Sites (Principal Investigator: P. Suresh C. Rao; co-principal investigators: I. Hua, Linda S. Lee and Chad Jafvert), 2002-2004.
- Purdue Research Foundation (*Special Initiatives Research Grant*): Development of Particle Image Velocimetry System for Measurement of Velocity, Acceleration and Pressure Fields in Environmental Fluid Flows (PI: I. Hua, co-principal investigator: B. Tao), 2002.
- Florida International University; Hemispheric Center for Environmental Technology: Determination of Rate and Degree of Alkaline Solution Neutralization within a Pipe Using Carbon Dioxide Sparging (PI: I. Hua, co-Principal Investigators: Ronald F. Wukash and Loring F. Nies), 2000.
- Purdue Research Foundation: An Investigation of Ultrasonic Irradiation as an Alternative Disinfection Technology (PI: I. Hua), 2000-2001.
- American Chemistry Council (formerly the Chemical Manufacturers Association): Brominated Flame Retardants: Environmental Photochemical Reactions of Decabromodiphenylether (PI: Chad T. Jafvert, co-PI: I. Hua), 2000-2001.
- Showalter Trust Foundation: Control and Reduction of Water Pollution with Supercritical Fluids (PI: I. Hua), 1999-2000.
- Purdue Research Foundation: Ultrasonic Irradiation for Pollution Prevention (PI: I. Hua), 1998-2000.
- NSF: Academic Research Infrastructure Program: Environmental Engineering Laboratories (PI: I. Hua), 1997-1998.
- U.S. Department of Energy: An Investigation of Homogeneous and Heterogeneous Sonochemistry (PI: I. Hua), 1996-1999.
- Purdue Research Foundation: Decomposition of Hazardous Wastes in Acoustically Cavitating Aqueous Solutions (PI: I. Hua), 1996-1998.
- The Showalter Trust Foundation: The Use of Ultrasonic Waves for Water Pollution Control (PI: I. Hua), 1996-1998.