



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: 2003AL8B

Title: In-situ Destruction of PCBs, PCE and TCE in Alabama Soils and Groundwater Using a New Nanoscale Sorptive Catalyst

Project Type: Research

Focus Categories: Groundwater, Management and Planning

Keywords: Chlorinated Contaminants, Environmental Catalysis, Groundwater Quality, PCBs, PCE, TCE, Soil Remediation

Start Date: 03/01/2003

End Date: 02/29/2004

Federal Funds: \$ 24951.00

Matching Funds: \$49902.00

Congressional District: Third

Principal Investigators: Zhao, Dongye

Abstract: This project will test the feasibility of a new in-situ destruction technique for complete removal of PCBs, PCE and TCE from soils and groundwater. The researchers intend to develop a new class of sorptive catalyst by anchoring Fe(0) on a commercially available nanoscale amphiphilic polymer. This highly reactive, nanoscale catalyst will be specific for degradation of the chlorinated organic compounds in soils and groundwater.

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