



## WATER RESOURCES RESEARCH GRANT PROPOSAL

**Project ID:** 2003DE21B

**Title:** Enhanced Pollutant Biodegradation by Electrode Use

**Project Type:** Research

**Focus Categories:** Water Quality, Waste Water, Geochemical Processes

**Keywords:** organic pollutants, biodegradation, wastewater treatment

**Start Date:** 06/01/2003

**End Date:** 02/28/2004

**Federal Funds Requested:** \$3000.00

**Matching Funds:** \$6000.00

**Congressional District:** At large

**Principal Investigators:** Dentel, Steven K (University of Delaware)

**Abstract:** This project concerns environmental situations where organic substances remain over long periods of time, even though they should be biodegradable. For example, a contaminated groundwater may contain specific, contaminants that are theoretically biodegradable but remain at concentrations that may be low, but are still undesirable. Another example is in wastewater or sludges where the overall concentration of organics should be reduced before the material is land-applied or otherwise disposed of. Enhancing the rate and extent of biodegradation could thus allow pollutants in these environments to be more rapidly stabilized or removed.

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