

2008 SBRP Special Seminar & Networking Opportunity
Sponsored by the Superfund Basic Research Program, NIEHS

**From Polycyclic Aromatic Hydrocarbons to Organophosphates:
Photolytic Fate in Engineered and Natural Systems**

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Wednesday

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10 - 11:30 am

Chamblee 110 Room 1113

The environmental fate of various polycyclic aromatic hydrocarbons (fluorene, dibenzofuran, and dibenzothiophene) and organophosphate pesticides (chlorpyrifos, parathion, and diazinon) in water was studied with a focus on the impact of UV-based degradation and oxidation processes. These contaminants were evaluated for degradation products and pathways as well as byproduct toxicity via various bioassays. In some cases mixtures were also evaluated. The decay in both natural systems and engineered treatment systems was studied. This work was performed as part of the Duke University Superfund Basic Research Program.