

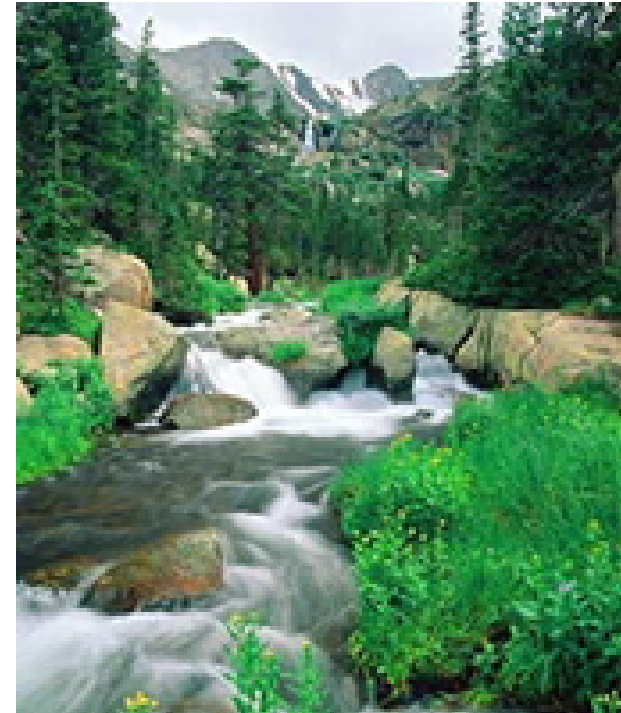
Engineering/Physics Seminar

Wednesday 1/30/2008, 4:30 pm
Science & Engineering Building Auditorium

Philip T. McCreanor

Department of Biomedical & Environmental Engineering
Mercer University

**Integrated Solid Waste Management:
Trends, Technologies and Trade offs**



Please join us for light refreshments at 4:15pm outside SEB 203.

In 2006, the U.S. generated approximately 250 million tons of municipal solid waste. After recycling, almost 170 million tons of waste remained for disposal. Eighteen percent (30.6 million tons) of the disposed waste was directed to incinerators while the remaining 82% (139.4 million tons) was routed to landfills. This landfilled waste would occupy a volume of 278.8 million yd³, enough waste to cover a square mile with 270 ft of waste. Projections suggest that while disposal rates in the U.S. may remain relatively constant, waste generation can be expected to increase by 3.7 million tons per year.

The management of solid waste will clearly continue to be a major issue for both citizens and policy makers. The development and evaluation of solid waste management strategies requires an understanding of waste generation and composition trends as well as the complexities of and interrelations among waste collection, recycling, landfilling, and incineration operations.

This seminar will present:

- an overview of national and international waste generation, composition, and management trends;
- challenges and innovations to waste collection operations;
- a discussion of the impact of recycling on landfill and incineration facilities; and
- emerging waste disposal technologies and strategies.

Integrated Solid Waste Management: Trends, Technologies, and Trade-Offs

