

CALL FOR PAPERS

Geochemistry of Engineered Nanoparticles in the Environment

Division of Environmental Chemistry
237th American Chemical Society (ACS) National Meeting
March 22-26, 2009
Salt Lake City, UT

The pursuit and deployment of nanotechnologies in commercial, industrial, and military products is based on the particular advantages of hyper- or unique-reactivity associated with the very small sizes (1 to 250 nm) of specially engineered solid phase particles. However, the ability to describe and predict the environmental fate of nanoparticles once released from enhanced materials lags far behind the current pace of nanotechnology implementation. Yet, the need for this information is becoming increasingly clear as new research shows differential stability of these materials in deployed products. This missing chemical fate information limits the utility of traditional risk assessment measures to human and environmental health. This symposium will discuss the latest research on the mechanisms controlling the geochemical fate of engineered nanomaterials. Specific topics include dispersion behavior, aerosolization, interactions with other solids (i.e., "sorption"), and spontaneous nanomaterial degradation (e.g., surface degradation or modification) under environmental conditions. Research regarding the degradative release of nanomaterials from composites and blends will also be discussed as a precursor to environmental fate behavior.

Presenters are required to submit a short abstract to the ACS by October 20, 2008 using the ACS online system (OASYS) at <http://oasys.acs.org/>. This division also requires an extended abstract of two or more pages that must be submitted via OASYS using the instructions posted on the web at <http://envirofacs.org>.

In addition, a symposium book is being planned, for which each author will need to submit a completed manuscript by March 1, 2009.

Symposium Organizers:

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