

Center for the Environmental Implications of NanoTechnology: multi-scale, collaborative efforts in developing a framework for nanomaterials risk assessment

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Center for the Environmental Implications of NanoTechnology (CEINT)

The Center for the Environmental Implications of NanoTechnology (CEINT) is engaged in research that seeks to elucidate relationships between properties of nanomaterials and their environmental behavior. This presentation provides an overview of activities in CEINT and illustrates the methodology being applied to a wide range of nanomaterials in developing a framework for nanomaterial risk assessment. Work on modeling the transport, fate and transformations of nanomaterials in the environment will be highlighted with discussion of the importance of nanoparticles affinity for surfaces and aggregation as a modifier of nanoparticle reactivity. Examples of nano silver and C60 are used to illustrate these processes.