In the era of nanotechnology, the projection for utilizing engineered nanomaterials with diameters of < 100 nm in industrial applications has advanced significantly. This seminar will center on the generation and characterization of nanostructured materials that effectively integrate different components to form multifunctional systems. Nanoparticles and composites of selected oxides, metals, and carbon/metal materials exhibiting core/sheath and multilayered structures that meet some of the main characteristics required for battery electrodes will be introduced. Some innovative inorganic synthetic pathways, including plasma/aerosol and chemical methodologies, employed for their preparation will also be shared.

**Monday, 28 September 2009, 2:30 pm**

**Speaker: Claudia C. Luhrs**  
Assistant Professor, *Department of Mechanical Engineering, UNM*

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