## Sustainability and Nanotechnology

Birgit Schwenzer National Science Foundation

This presentation will highlight current examples of nanotechnology advances that have already lowered the environmental impact of several manufacturing processes. Printed electronics, nanocatalysts, and sensing technologies for environmental and clinical applications either have been commercialized or are in the process of technological adoption. A strong case can be made that nanoscience and nanotechnology have the potential to play an important role in sustainability in many other ways as well. They can contribute solutions to address the climate crisis. Energy storage and electrification of the transportation sector as well as carbon management/carbon capture are only two examples that seem ripe for innovation.