

Seminar poses the question: Is it time to reassess the promise of nanotechnology?

Investment in nanotechnology research is based on the promise of a transition to active nanotechnology, nanostructures, and nanodevices. Products of all kinds have been promised, everything from self-healing materials to molecular machines. But are such advances really taking place, and if so, where are they happening, and when will they arrive?

Youtie and her research team gathered evidence from large-scale analysis of patents and research publications from across the world. They present information about the timing of next-generation nanotechnology outputs, and how they have spread. They then use lessons from the diffusion of science-based applications to suggest implications for investment and research decisions in the nanotechnology sector.

Drawn from research with Philip Shapira and colleagues at Georgia Tech, this seminar discusses evidence on nanotechnology and commercialization and explores implications for anticipatory governance and public policy.



Dr. Jan Youtie's research focuses on technology-based economic development, innovation and emerging technology measurement, and manufacturing modernization. Dr. Youtie has published extensively in peer-reviewed journals including *Nature Nanotechnology*, *Journal of Nanoparticle Research*, *Research Policy*, and *Journal of Technology Transfer*.

Recently, her work has been presented to the Nanotechnology Environmental and Health Implications (NEHI) working group and in reports of the President's Council of Advisors in Science and Technology on advanced manufacturing and the fourth assessment of the National Nanotechnology Initiative.

Alongside her colleague from Georgia Tech, **Dr. Philip Shapira**, and Dr. Jose Lobo from ASU, Dr. Youtie co-leads the Real-Time Technology Assessment (RTTA 1) at CNS-ASU that focuses on the scope of the Nanoscale Science and Engineering (NSE) enterprise and its effects on public values and outcomes.



A video of this presentation is available on the CNS-ASU Vimeo channel at <http://vimeo.com/cnscspo/reassessnano>

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