



The National ATE Center for Nanotechnology Applications and Career Knowledge (NACK)

Webinar Handout

Catching the Nanotechnology Wave: Needs, Risks, and Opportunities

November 1, 2013

Presenter:





Daniel J. C. Herr, Ph.D.

Professor and Nanoscience Department Chair and Director – Nanomanufacturing Innovation Consortium, The Joint School of Nanoscience and Nanoengineering



djherr@uncg.edu

Key Messages:

- Today's nanomaterials and tools provide unprecedented opportunities for today's students, scientists, engineers, innovators and entrepreneurs to support each other and create high value products that address emerging societal needs.
- This is a good time for innovators to question some of our basic assumptions about designing and building value added products in the micro- and nano- domains.
- It is imperative that educators keep current with these rapidly evolving technologies to ensure that workforce entrants have the knowledge, skills and abilities they will need.

Additional Resources

"Minecraft VS. LEGO" - http://www.robertsoninnovation.com/another-cool-way-to-generate-a-3d-model-minecraft/

Moore's Law – the observation that, over the history of computing hardware, the number of transistors on integrated circuits doubles approximately every two years. Read more - http://en.wikipedia.org/wiki/Moore's_law

"Nanoinspired by Nature: Daniel Herr at TEDxGreensboro" – http://www.youtube.com/watch?v=SQfvJhSwHHw

"Robohand" - http://www.youtube.com/watch?v=A6isKsPWubA

Semiconductor Research Corporation: the world's leading technology research consortium, SRC research programs invest millions in cutting-edge semiconductor research. Read more - http://www.src.org/



