



High Impact Technology Exchange Conference

Educating America's Technical Workforce

Fairmont Scottsdale (Arizona)

July 19–22, 2009

Title: Session C1: Nanotechnology: From Energy to Medicine

Date/Time: Tuesday, July 21, 10:30 AM – 12:00 PM

Location: Fairmont Scottsdale Resort, Salon C

Description: The nano-scale offers new phenomena and therefore new opportunities for products. The new phenomena can be startling: structures that self-assemble, and nano-particles that do not “feel” gravity, have intense anti-microbial activity, intense magnetic response, and do not have the color, nor even the melting temperature, of the normal sized samples.

This session will explain why these unusual phenomena appear at the nano-scale, delve into the history of nanotechnology, and explain why nanotechnology has become so important now in the 21st Century. The session will focus on two applications of nanotechnology: energy and medicine, health, and the environment.

Presenters:

Dr. Travis Benanti, Pennsylvania State University

Dr. Stephen J. Fonash, Pennsylvania State University



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